Assessment Unit ID	Waterbody Name	City / County*	* Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Aberde	en Creek
TMDL Group ID:	01257		
VAT-F26E_ABD01A00	Aberdeen Creek	GLOUCESTER CO	Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters downstream to the mouth. DSS shellfish direct harvesting condemnation # 047-078 A.
VA Overall AU Category: <b>5A</b>	Investment 0.40		YRKMH
Use Shellfishing	Impairment 0.13 SQUARE MILES  Fecal Coliform	TMDL Group ID First Listed on 303(d) TI 01257 1998	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category  2010 VAT-F26E-15
<b>.</b>		, , , , , , , , , , , , , , , , , , , ,	DSS shellfish direct harvesting condemnation # 047-078 A. EPA 1999 Consent Decree segment, Attachment A, Category 3.
	Sources: S	Source Unknown	
TMDL Watershed Name:		Adams	s Creek
TMDL Group ID:	01258		
VAT-F26E_ADM01A00	Adams Creek	GLOUCESTER CO	Eastern shore of York River near Purtan Island. VDH-DSS shellfish condemnation # 048-128B, 11/5/2004.
			Size adjusted in 2006 cycle, although area did not change
			YRKMH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.18 SQUARE MILES Fecal Coliform	6 TMDL Group ID First Listed on 303(d) TI 01258 <b>2004</b>	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category  2010 VAT-F26E-12
			VDH-DSS Condemnation 048-128B, 11/4/2005
	Sources: S	Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Aberdeen	Creek
TMDL Group ID:	01257		
VAT-F26E_ABD01A00	Aberdeen Creek	GLOUCESTER CO	Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters downstream to the mouth. DSS shellfish direct harvesting condemnation # 047-078 A.
VA Overall AU Category: <b>5A</b> Use	Impairment 0.13 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMD	YRKMH  OL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform		110 VAT-F26E-15
			DSS shellfish direct harvesting condemnation # 047-078 A. EPA 1999 Consent Decree segment, Attachment A, Category 3.
	Sources: Sources	urce Unknown	
TMDL Watershed Name:		Adams (	Creek
TMDL Group ID:	01258		
VAT-F26E_ADM01A00	Adams Creek	GLOUCESTER CO	Eastern shore of York River near Purtan Island. VDH-DSS shellfish condemnation # 048-128B, 11/5/2004.
			Size adjusted in 2006 cycle, although area did not change
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.18 SQUARE MILES	TMDL Group ID First Listed on 303(d) TME	DL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01258 <b>2004 20</b>	10 VAT-F26E-12
			VDH-DSS Condemnation 048-128B, 11/4/2005
	Sources: Soi	urce Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Bakers Creek	
TMDL Group ID:	01259		
VAT-F26E_BAK01A00	Bakers Creek	KING AND QUEEN CO	North shore York R SE of West Point Municipal Airport. Estuarine portion of creek. Portion of DSS condemnation # 049-004A.
VA Overall AU Category: <b>5A</b>			YRKMH
Use Shellfishing	Impairment 0.01 SQUARE MILE  Fecal Coliform	ES TMDL Group ID First Listed on 303(d) TMDL Schedu 01259 <b>2002 2014</b>	lle Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-21
			Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/2004
	Sources:	Source Unknown	
TMDL Watershed Name:		Berry Run	
TMDL Group ID:	60107		
VAN-F07R_BRY01A06	Berry Run	ORANGE CO	Segment begins at the confluence with Little Creek and continues downstream until the confluence with Clear Creek.
VA Overall AU Category: <b>5A</b> Use	Impairment 2.35 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60107 <b>2006 2016</b>	Sufficient exceedances of the instantaneous E.coli bacteria criterion (8 of 16 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (8-BRY000.47) at the Route 629 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources:	Source Unknown	
TMDL Watershed Name:		Carter Creek	
TMDL Group ID:	01485		
VAT-F26R_CTC01A04	Carter Creek	YORK CO	NW & SE of Skimino, N of Camp Peary. Riverine portion of Carter Creek
VA Overall AU Category: 5A Use Recreation	Impairment 0.91 MILES Fecal Coliform	TMDL Group ID First Listed on 303(d) TMDL Schedu 01485 2004 2016	le Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26R-01
			Sufficient exceedances of Virginia's water quality standard for Fecal Coliform bacteria were recorded at DEQ's biological water quality monitoring station (2/3) on Carter Creek to assess this segment as not supporting of the Clean Water Act's Recreation Use Support Goal.
	Sources:	Source Unknown	

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Assessment Unit ID	Waterbody Name	City / Coun	ty	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Cart	er Creek	
TMDL Group ID:	01486			
VAT-F26R_CTC01A04	Carter Creek	YORK CO		NW & SE of Skimino, N of Camp Peary. Riverine portion of Carter Creek
VA Overall AU Category: <b>5A</b> Use	Impairment 0.91 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life Benthic	e-Macroinvertebrate Bioassessments (Streams)	01486 <b>2004</b>	2016	VAT-F26R-01
	(Sueams)			Benthic biological monitoring at station 8-CTC003.78 (located at State Route 604) indicated the stream's benthic community was moderately impaired. As a result, DEQ's General Standard (VR680-21-01.2) is not met for the protection of benthic aquatic life and this segment is assessed as not supporting of the Clean Water Act's Aquatic Life Use.
	Sources:	Source Unknown		
TMDL Group ID:	70004			
VAT-F26E_CTC01A06	Carter Creek	YORK CO		Located in York County near Skimino. From mouth to estuarine/riverine transition. DSS condemnation #050-079.
				YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.03 SQUARE MILES	S TMDL Group ID First Listed on 303(d)	TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	70004 2002	2018	VAT-F26E-07
		•		VDH-DSS Condemnation 050-079, 9/12/2003
		Source Unknown		
TMDL Watershed Name:		arter Creek (Gloucester Cou	nty) - Upp	per Portion (North Shore)
TMDL Group ID:	01270			
VAT-F27E_CRT01A00	Carter Creek (Gloucester County) - Upp portion	oer GLOUCESTER	CO	North shore York R located NW of Catlett Islands. Upper portion of creek, as described in VDH-DSS condemnation 047-107A, 12/30/2004.
				Segment expanded in 2006 cycle.
				YRKPH
VA Overall AU Category: <b>5A</b> Use		S TMDL Group ID First Listed on 303(d)		
Shellfishing	Fecal Coliform	01270 <b>1998</b>	2010	VAT-F27E-18
	Sources:	Source Unknown		VDH-DSS condemnation 047-107A, 12/30/2004

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Cedarbush Creek, U	pper
TMDL Group ID:	01269		
VAT-F27E_CDB01A00	Cedarbush Creek - Upper	GLOUCESTER CO	North shore York River, north of Catlett Islands. VDH- DSS condemnation 047-107B, 12/30/2004
			Segment expanded in 2006 cycle.
			YRKPH
VA Overall AU Category: 5A Use Shellfishing	Impairment 0.08 SQUARE MIL Fecal Coliform	ES TMDL Group ID First Listed on 303(d) TMDL Schedul 01269 1998 2010	e Impairment Specific Comments and/or Impairment Specific VA Category VAT-F27E-17
			VDH-DSS Condemnation 042-107B, 12/30/2004
	Sources	Source Unknown	
TMDL Watershed Name:		Cohoke Mill Creek, Unname	ed Tributary
TMDL Group ID:	01117		
VAP-F14R_XDM01A00	Cohoke Mill Creek, UT	KING WILLIAM CO	Mainstem upstream of Cohoke Millpond.
VA Overall AU Category: <b>5C</b> Use	Impairment 2.20 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedul	e Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01117 <b>2004 2016</b>	VAP-F14R-03
	Courses	: Natural Conditions - Water Quality Standards Use Attaina	The UT was initially assessed as not supporting of the Aquatic Life Use in 2004 based on a pH violation rate of 2/2 at 8-XDM000.50. During the 2006 cycle, the segment remains impaired (6/11).
TMDL Watershed Name:	Sources	·	Dillity Analyses Needed
TMDL Watersheu Name.  TMDL Group ID:	22252	Contrary Creek	
VAN-F08R_CON01A00	00856 Contrary Creek	LOUISA CO	Segment begins at the headwaters of Contrary Creek and continues downstream until the confluence with Lake Anna.
VA Overall AU Category: <b>5A</b> Use	Impairment 5.49 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedul	
Aquatic Life	рН	00856 <b>2002 2014</b>	Sufficient exceedances of the instantaneous pH criterion (20 of 22 samples - 90.9%) were recorded at DEQ's ambient water quality monitoring station (8-CON005.38) at the Route 522 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
	Sources	Impacts from Abandoned Mine Lands (Inactive)	me use goal tot the 2000 water quality assessinetic.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Dickeys Swamp, Dogwood Fork, U	T Garnetts Creek UT
TMDL Group ID:	01118		
VAP-F23R_DKW01A00	Dickeys Swamp	KING AND QUEEN CO	Headwaters to Dogwood Fork.
VA Overall AU Category: 5C Use Aquatic Life	Impairment 6.36 MILES  Oxygen, Dissolved	TMDL Group ID First Listed on 303(d) TMDL Schedu 01118 <b>2002 2014</b>	VAP-F23R-02  Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed
			as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)
			The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.
			In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.
	Sources	: Natural Conditions - Water Quality Standards Use Attain	There has been no additional monitoring since 2002. ability Analyses Needed
VAP-F23R_DKW01B00	Dickeys Swamp	KING AND QUEEN CO	Dogwoods Fork to Route 620
VA Overall AU Category: 5C Use	Impairment 4.18 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01118 <b>2002 2014</b>	VAP-F23R-02
			Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)
			The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.
			In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.
	Caaaa	· Natural Conditions - Water Quality Standards Lies Attain	There has been no additional monitoring since 2002.
	Sources	: Natural Conditions - Water Quality Standards Use Attain	aulily Arialyses Inceded

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**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** York River Basin Dickeys Swamp, Dogwood Fork, UT Garnetts Creek UT TMDL Watershed Name: TMDL Group ID: 01118 VAP-F23R\_DKW01C98 **Dickeys Swamp** KING AND QUEEN CO Route 620 to Garnetts Creek. VA Overall AU Category: **Impairment** 0.64 MILES Use TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01118 2002 2014 VAP-F23R-02 Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12) The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014. In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring. There has been no additional monitoring since 2002. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed TMDL Watershed Name: **Dogwood Fork** TMDL Group ID: 01119 VAP-F23R\_DWD01A00 **Dogwood Fork** KING AND QUEEN CO From its headwaters to its mouth at Dickeys Swamp. 5C VA Overall AU Category: Use **Impairment** 2.80 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category 01119 2002 2014 Aquatic Life Oxygen, Dissolved VAP-F23R-02 Route 620 bridge (8-DKW000.12)

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

There has been no additional monitoring since 2002.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Felgate's Creek - Up	per
TMDL Group ID:	01271		
VAT-F27E_FEL01A00	Felgate's Creek		South of Pennimon Spit, within Naval Weapons Station. Segment extends from headwaters downstream to mouth. Portion of DSS condemnation # 051-035C. In 2006: Merged with FEL02A00, which was deleted.
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.25 SQUARE MILES TMDL	Group ID First Listed on 303(d) TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform (	01271 <b>1998 2010</b>	VAT-F27E-12 (SF)
			Portion of VDH-DSS condemnation 051-035C, 10/7/2004 - The upper portion of Felgates Creek has been previously assessed as impaired of the Shellfish Consumption Use based on condemnation 134B. During the 2006 cycle, the impairments on Felgates and King Creeks were expanded and merged.
	Sources: Source U	Jnknown	
TMDL Watershed Name:		Fox Creek	
TMDL Group ID:	70003		
VAT-F26E_FOX01A06	Fox Creek		Fox Creek trib to York River. Located southeast of Almondsville in Gloucester Co. DSS condemnation # 72, 4/27/1989.
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.02 SQUARE MILES TMDL	Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	70003 2006 2018	VAT-F26E-06
			VDH-DSS Condemnation 047-072, 4/27/1989
	Sources: Source U	Jnknown	

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin **Garnetts Creek, UT** TMDL Watershed Name: TMDL Group ID: 01123 VAP-F23R\_XDN01A00 **Garnetts Creek, UT** KING AND QUEEN CO Headwaters to mouth at Garnetts Creek. VA Overall AU Category: Impairment 2.48 MILES Use TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01123 2002 2014 VAP-F23R-02 Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12) The segment was downgraded and extended in 2002 cycle to incorporate Dogwood

There has been no additional monitoring since 2002.

due in 2014.

Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Gold Mine Creek	
TMDL Group ID:	00224		
VAN-F06R_GMC01A00	Gold Mine Creek	LOUISA CO	Segment begins at the headwaters of Gold Mine Creek and continues downstream until the confluence with Lake Anna.
VA Overall AU Category: Use Recreation	Impairment 7.16 MILES  Escherichia coli  Source	TMDL Group ID First Listed on 303(d) TMDL Schedul 00224 2006 2005  s: Grazing in Riparian or Shoreline Zones Impacts from Land Application of Wastes Livestock (Grazing or Feeding Operations) Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Wastes from Pets Waterfowl	Impairment Specific Comments and/or Impairment Specific VA Category  A bacteria TMDL for the Goldmine Creek watershed was submitted to the U.S. EPA and approved November 4, 2005. The sources of bacteria requiring reductions are pet, livestock and wildlife waste delivered directly to the stream or via pastureland or forest, human contributions from straight pipes, failing septic systems, and leaking sanitary sewers, and biosolid application.  Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 12 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (8-GMC002.19) at the Route 613 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.  Segment listed as Category 4A - Federal ID NA.
		Wildlife Other than Waterfowl	
TMDL Watershed Name:		Harrison Creek	
TMDL Group ID:  VAP-F14R_HSN01A00	01116 Harrison Creek	KING WILLIAM CO	Upstream of pond at Elsing Green to nearest tributaries.
VA Overall AU Category: 5C Use Aquatic Life	Impairment 2.59 MILES pH	TMDL Group ID First Listed on 303(d) TMDL Schedul 01116 2004 2016	
	Source	s: Natural Conditions - Water Quality Standards Use Attaina	Harrison Creek was initially assessed as not supporting of the Aquatic Life Use in 2005 based on a pH violation rate of 2/2 at the Route 632 bridge (8-HSN002.12). During the 2006 cycle, the segment remained impaired (2/11). ability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Herring	Creek
TMDL Group ID:	00325		
VAN-F21R_HER01B02	Herring Creek	KING WILLIAM CO	Segment begins at the confluence with Dorrell Creek and continues downstream until the start of Herring Creek Millpond.
VA Overall AU Category: <b>5A</b> Use	Impairment 4.81 MILES	TMDL Group ID First Listed on 303(d) TM	1DL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	00325 <b>2002</b> 2	Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-HER005.12) at the Route 609 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Nine of 14 samples (64.3%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources	: Natural Conditions - Water Quality Standards	Use Attainability Analyses Needed
TMDL Group ID:	00865		
VAN-F21R_HER01B02	Herring Creek	KING WILLIAM CO	Segment begins at the confluence with Dorrell Creek and continues downstream until the start of Herring Creek Millpond.
VA Overall AU Category: <b>5A</b> Use	Impairment 4.81 MILES	TMDL Group ID First Listed on 303(d) TM	1DL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00865 <b>2002</b> 2	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 8 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (8-HER005.12) at the Route 609 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	: Source Unknown	
TMDL Group ID:	60118		
VAN-F21R_HER01A06	Herring Creek	KING WILLIAM CO	Segment begins at the outlet of Herring Creek Millpond and continues downstream until the confluence with the Mattaponi River.
VA Overall AU Category: <b>5C</b> Use	Impairment 1.39 MILES	TMDL Group ID First Listed on 303(d) TM	1DL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	60118 <b>2006</b> 2	Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-HER000.33) at the Route 600 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Two of six samples (33.3%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources	: Natural Conditions - Water Quality Standards	Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name		City / Count	у	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Hockl	ey Creek	
TMDL Group ID:	01260				
VAT-F26E_HCK01A04	Hockley Creek		KING AND QUEE		North shore York R NW of Belleview. Portion of DSS condemnation # 049-004A.
					YRKMH
VA Overall AU Category: 5A Use Shellfishing	Impairment 0.04 SQUARE MILES Fecal Coliform	TMDL Group ID 01260	First Listed on 303(d) 2002	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-22
					Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/004
	Sources: S	Source Unknown			
TMDL Watershed Name:			Hornqu	arter Creel	k
TMDL Group ID:	01101				
VAP-F12R_HQT01A00	Hornquarter Creek		CAROLINE CO KING WILLIAM		Mainstem, headwaters to mouth.
VA Overall AU Category: 5C Use	Impairment 6.59 MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	01101	2002	2014	VAP-F12R-03
	Q A		Water Quality Objects	de Here Affects of	Hornquarter Creek was initially evaluated not supporting of the Aquatic Life use support goal during the 2002 cycle based on pH standard violations at the Route 614 bridge (8-HQT002.12). During the 2006 cycle, the violation rate was 4/12.
THE	Sources: N	Natural Conditions	- Water Quality Standar		
TMDL Watershed Name:			Indian F	ield Creek	(
TMDL Group ID:	01272				
VAT-F27E_IFC01A00	Indian Field Creek		YORK CO		Southeast of Pennimon Spit, within Naval Weapons Station. DSS condemnation no. 051-130, 11/12/1998.
					YRKPH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.12 SQUARE MILES Fecal Coliform	TMDL Group ID 01272	First Listed on 303(d) 1998	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category VAT-F27E-19
-					VDH-DSS condemnation 051-130, 11/12/1998
	Sources: S	Source Unknown			

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Assessment Unit ID	Waterbody Name	City / Count	1	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Jack	s Creek	
TMDL Group ID:	01103			
VAP-F13R_JKC01A98	Jacks Creek and major tributaries	KING WILLIAM (	o	Jacks Creek in its entirety. Segment extended to consolidate Acquinton and Mallory Creeks in 2006
VA Overall AU Category: <b>5C</b> Use	Impairment 22.99 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01103 <b>2002</b>	2014	VAP-F13R-03
				The mainstem of Jacks Creek was assessed as fully supporting but threatened of the Aquatic Life Use in 1998 due to dissolved oxygen violations at the Rt. 621 bridge (8-JCK004.15). In 2002, the segment was downgraded to impaired and extended to incorporate Acquinton and Mallory Creeks based on the results of a special study: DO 1/1 at 8-ACQ008.01; DO 1/1 at 8-ACQ001.35; DO 1/1 at 8-MLY001.58.
				The TMDL is due in 2014.
				During the 2006 cycle, the violation rate was 3/25 at 8-JKC004.15, so the segment remains impaired.
	Sources:	Natural Conditions - Water Quality Standar	ls Use Attain	ability Analyses Needed
TMDL Watershed Name:		Jones & S	andy Cre	eeks
TMDL Group ID:	01261			
VAT-F26E_JNS01A00	Jones Creek	GLOUCESTER (	Ю	NW of Clay Bank, between Rts 618 & 616. From mouth to estuarine/riverine transition as described in DSS shellfish condemnation # 047-115, 11/7/2002.
				YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.06 SQUARE MILE	ES TMDL Group ID First Listed on 303(d)	TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01261 <b>1998</b>	2010	VAT-F26E-13
				VDH-DSS Condemnation 047-115, 11/7/2002
	Sources:	Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		King Creek - Low	er
TMDL Group ID:	70005		
VAT-F27E_KNG02A02	King Creek - Lower	YORK CO	South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.
			YRKPH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.14 SQUARE MILES Fecal Coliform	TMDL Group ID First Listed on 303(d) TMDL Schedu 70005 <b>2006 2018</b>	Impairment Specific Comments and/or Impairment Specific VA Category VAT-F27E-13
			Portion of VDH-DSS condemnation 051-035C, 10/7/2004 - The impairment was expanded during the 2006 cycle; the TMDL for the expanded area is not due until 2018.
	Sources: So	urce Unknown	
TMDL Watershed Name:		King Creek - Upp	er
TMDL Group ID:	00331		
VAT-F27E_KNG01A02	King Creek - Upper	YORK CO	South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	00331 2006 2010	VAT-F27E-05
			Sufficient exceedances of Virginia's water quality standards for Fecal Coliform Bacteria were recorded at DEQ's ambient water quality monitoring station on King Cr. to assess this segment as not supporting of the Clean Water Act's Recreation Use Support Goal for the 2002 305(b) report. The cause of the standard exceedances was considered unknown.
			During the year 2006 cycle, the segment remained impaired of the Recreation Use due to an enterococci violation rate of 6/14 at 8-KNG004.46. The impairment was converted from fecal coliform to enterococci, however the original TMDL due date was maintained.
	Sources: So	urce Unknown	

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Assessment Unit ID	Waterbody Name City / County		,	Assessment Unit Description	
York River Basin					
TMDL Watershed Name:		King Cre	ek - Upper		
TMDL Group ID:	01273				
VAT-F27E_KNG01A02	King Creek - Upper	YORK CO	Sta	uth shore of York River. East of Pennimon Spit, within Naval Weapons ation facility. Headwaters area of creek downstream to RM 0.50. Portion VDH-DSS condemnation 051-035C, 10/7/2004	
			YR	RKPH	
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.19 SQUARE M Fecal Coliform	LES TMDL Group ID First Listed on 303(d) - 01273 1998		Impairment Specific Comments and/or Impairment Specific VA Category	
Shemishing	Fecal Coliform	01273 1998			
	Source	s: Source Unknown	PO	rtion of VDH-DSS condemnation 051-035C, 10/7/2004	
TMDL Watershed Name:		Lake Anna a	nd Tributari	es	
TMDL Group ID:	60139				
VAN-F06R_GMC01A00	Gold Mine Creek	LOUISA CO		gment begins at the headwaters of Gold Mine Creek and continues wnstream until the confluence with Lake Anna.	
VA Overall AU Category: 5D Use	Impairment 7.16 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category	
Fish Consumption	PCB in Fish Tissue	60139 <b>2006</b>	He adv bas two its	e fish consumption use is categorized as impaired due to a Virginia Department of alth, Division of Health Hazards Control, PCB fish consumption advisory. The visory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped ss, white catfish, channel catfish, and bluegill sunfish consumption to no more than o meals per month. The affected area includes the entirety of Lake Anna, including tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.	
			par rec	exceedance of the water quality criterion based tissue screening value (TV) of 54 rts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue that was corded in three species of fish samples; largemouth bass (2000), striped bass (2000), and carp (2003), collected at monitoring station 8-GMC001.43.	
	_	s: Source Unknown			

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Assessment Unit ID	Waterbody Name	City /	County	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Lake A	Anna and Tribu	ıtaries
TMDL Group IE	60139			
VAN-F07L_CON01A02	Lake Anna/Contrary Creek	LOUI	SA CO	Segment includes the Contrary Creek arm of Lake Anna, beginning at the start of the inundated waters of Contrary Creek. The Freshwater Creek arm is not included in the segment. Segment size is approximate.
VA Overall AU Category: <b>5A</b> Use	Impairment 472.00 ACRES	TMDL Group ID First Listed on	303(d) TMDI Schedi	ule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 <b>2002</b>	2014	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
				Additionally, sufficient exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded at DEQ's fish tissue/sediment monitoring station 8-CON003.84 to assess this segment as not supporting of Clean Water Act's (CWA's) fish consumption use goal. The TV for PCB's was exceeded in two species (channel catfish and carp) in samples collected 2000 and in two species (carp-rep1 and carp-rep2) in samples collected 2003.
	Source	s: Source Unknown		
VAN-F07L_FRC01A04	Lake Anna/Freshwater Creek	LOUI	SA CO	Segment includes the Freshwater Creek arm of Lake Anna.
VA Overall AU Category: <b>5A</b> Use	Impairment 51.00 ACRES	TMDL Group ID First Listed on	303(d) TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 <b>2006</b>	2018	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Source	s: Source Unknown		
VAN-F07L_GMC01A02	Lake Anna/Gold Mine Creek	LOUI	SA CO	Segment includes the Gold Mine Creek arm of Lake Anna.
VA Overall AU Category: <b>5A</b> Use Fish Consumption	Impairment 74.00 ACRES PCB in Fish Tissue	TMDL Group ID First Listed on 60139 2002	303(d) TMDL Schedo <b>2014</b>	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped
	Source	s: Source Unknown		bass,

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Assessment Unit ID	Waterbody Name	City / Cou	nty	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Lake Anna	a and Tribu	taries
TMDL Group ID:	60139			
VAN-F07L_NAR01A02	Lake Anna	LOUISA C SPOTSYLVAN		Segment includes the lower portion of Lake Anna, beginning near the northern end of the Route 690 bridge, and continues downstream until the dam.
VA Overall AU Category: <b>5A</b> Use	Impairment 1563.00 ACRES	TMDL Group ID First Listed on 303(c	l) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 <b>2002</b>	2014	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.  Additionally, an exceedance of the water quality criterion based fish tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fatifish) and four
				recorded in one species of fish samples collected in 2000 (channel catfish) and four species of fish samples collected in 2003 at monitoring station 8-NAR034.92 (carp, channel catfish-rep1, channel catfish-rep2, and largemouth bass).
	Sources	s: Source Unknown		
VAN-F07L_NAR02A02	Lake Anna	LOUISA C SPOTSYLVAN		Segment includes the middle portion of Lake Anna, beginning at the Route 208 bridge, and continues downstream until the northern end of the Route 690 bridge.
VA Overall AU Category: <b>5A</b> Use	Impairment 3330.00 ACRES	TMDL Group ID First Listed on 303(c	l) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 <b>2006</b>	2018	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Sources	s: Source Unknown		
VAN-F07L_NAR03A02	Lake Anna	LOUISA C SPOTSYLVAN		Segment includes the upper portion North Anna River portion of Lake Anna, beginning at the boundary of F07, and continues downstream until the Route 208 bridge.
VA Overall AU Category: <b>5A</b> Use	Impairment 846.00 ACRES	TMDL Group ID First Listed on 303(c	I) TMDI Schadu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 <b>2006</b>	2018	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Sources	s: Source Unknown		

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Assessment Unit ID	Waterbody Name		City / Count	у	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Lake Anna	and Tribut	taries
TMDL Group ID.	60139				
VAN-F07L_NAR04A06	Lake Anna		LOUISA CO SPOTSYLVANIA	CO	Segment includes the upper portion North Anna River of Lake Anna beginning at the start of the inundated waters of the North Anna River downstream until the boundary of the F06 watershed.
VA Overall AU Category: <b>5A</b> Use	Impairment 1422.00 ACRES	TMDL Group ID	First Listed on 303(d)	TMDI Schadul	le Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139	2006	<b>2018</b>	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass.
	Source	es: Source Unknown			
VAN-F07L_PLT01A04	Lake Anna/Plentiful Creek		SPOTSYLVANIA	CO	Segment includes the Plentiful Creek arm of Lake Anna.
VA Overall AU Category: <b>5A</b> Use	Impairment 109.00 ACRES	TMDL Group ID	First Listed on 303(d)	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139	2006	2018	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Source	es: Source Unknown			
VAN-F07L_PMC01A04	Lake Anna/Pamunkey Creek		SPOTSYLVANIA	CO	Segment includes the Pamunkey Creek arm of Lake Anna beginning at the confluence with the Terrys Run arm of the lake and continuing downstream until the confluence with the North Anna River at The Splits.
VA Overall AU Category: <b>5A</b> Use	Impairment 805.00 ACRES	TMDL Group ID	First Listed on 303(d)	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139	2006	2018	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Source	es: Source Unknown			· · · · · · · · · · · · · · · · · · ·

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Assessment Unit ID	Waterbody Name	(	City / County	Assessment Unit Description
York River Basin				
TMDL Watershed Name:	Lake Anna and Tribut			ries
TMDL Group ID	60139			
VAN-F07L_PMC02A02	Lake Anna/Pamunkey Creek		OTSYLVANIA CO	Segment includes the Pamunkey Creek Arm of Lake Anna from the beginning of the inundated waters of Pamunkey Creek downstream to the confluence with the Terry's Run arm of the lake.
VA Overall AU Category: <b>5A</b> Use	Impairment 472.00 ACRES	TMDL Group ID First Lie	sted on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	•	2018	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Source	s: Source Unknown		
VAN-F07L_TRY01A04	Terrys Run/Lake Anna		ORANGE CO OTSYLVANIA CO	Segment includes the Terrys Run arm of Lake Anna.
VA Overall AU Category: <b>5A</b> Use	Impairment 441.00 ACRES	TMDL Group ID First Lis	sted on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 20		The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including ts tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
				Additionally, an exceedance of the water quality criterion based fish tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue was recorded in four species of fish samples collected in 2003 at monitoring station 8-TRY001.33 (bluegill sunfish, carp, largemouth bass, and white catfish).
	Source	s: Source Unknown		
VAN-F07R_TRY01A00	Terrys Run			Segment begins at the confluence with Riga Run and continues downstream until the confluence with Lake Anna.
VA Overall AU Category: <b>5D</b> Use	Impairment 1.83 MILES	TMDL Group ID First Lis	sted on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 20		The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Source	s: Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Lake Anna and	Tributaries
TMDL Group ID:	60139		
VAN-F07R_TRY02A02	Terrys Run	ORANGE CO	Segment begins at the confluence with Horsepen Branch and continues downstream until the confluence with Riga Run.
VA Overall AU Category: <b>5D</b> Use	Impairment 3.62 MILES	TMDL Group ID First Listed on 303(d) TMDL	. Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	60139 <b>2006 20</b> 1	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.
	Sources:	Source Unknown	
TMDL Watershed Name:		Lake Gordo	onsville
TMDL Group ID:	60121		
VAN-F01L_DOV01A06	Lake Gordonsville	LOUISA CO	Segment includes all of Lake Gordonsville.
VA Overall AU Category: <b>5A</b> Use	Impairment 82.00 ACRES	TMDL Group ID First Listed on 303(d) TMDL	. Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	60121 <b>2006 20</b> 1	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, mercury fish consumption advisory. The advisory, dated 09/30/04, limits largemouth bass consumption to no more than two meals per month. The affected area includes the entirety of Lake Gordonsville, also known as Bowlers Mill Lake.
	Sources:	Source Unknown	
TMDL Watershed Name:		Little Ri	ver
TMDL Group ID:	60103		
VAN-F10R_LTL01A02	Little River	LOUISA CO	Segment begins at the confluence with Hawkins Creek and continues downstream until the outlet of waterbody F10R, near the border of Louisa and Hanover counties.
VA Overall AU Category: <b>5A</b> Use	Impairment 2.47 MILES	TMDL Group ID First Listed on 303(d) TMDL	. Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60103 <b>2006 20</b> 1	
	Sources:	Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description	
York River Basin				
TMDL Watershed Name:		Little River		
TMDL Group ID:	60110			
VAN-F10R_LTL01A02	Little River	LOUISA CO	Segment begins at the confluence with Hawkins Creek and continues downstream until the outlet of waterbody F10R, near the border of Louisa and Hanover counties.	
VA Overall AU Category: <b>5A</b> Use	Impairment 2.47 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category	
Aquatic Life	Oxygen, Dissolved	60110 <b>2006 2018</b>	Sufficient exceedances of the instantaneous dissolved oxygen criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality monitoring station (8-LTL030.55) at the Route 654 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.	
	Sources	: Source Unknown		
TMDL Group ID:	60116			
VAN-F10R_LTL01A02	Little River	LOUISA CO	Segment begins at the confluence with Hawkins Creek and continues downstream until the outlet of waterbody F10R, near the border of Louisa and Hanover counties.	
VA Overall AU Category: <b>5A</b> Use	Impairment 2.47 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category	
Aquatic Life	рН	60116 <b>2006 2018</b>	Sufficient exceedances of the instantaneous pH criterion (3 of 13 samples - 23.1%) were recorded at DEQ's ambient water quality monitoring station (8-LTL030.55) at the Route 654 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.	
	Sources	: Source Unknown		
TMDL Watershed Name:		Maracossic Cree	ek	
TMDL Group ID:	00867			
VAN-F22R_MAR02A02	Maracossic Creek	CAROLINE CO KING AND QUEEN CO	Segment begins at the confluence with Doctors Creek and continues downstream until the confluence with Beverly Run, approximately 0.66 rivermile downstream from Route 646.	
VA Overall AU Category: <b>5C</b> Use	Impairment 4.32 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category	
Aquatic Life	рН	00867 <b>2002 2014</b>	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MAR004.41) at the Route 646 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Three of 12 samples (25.0%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.	
	Sources	: Natural Conditions - Water Quality Standards Use Attain	ability Analyses Needed	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Maracossic Cree	k
TMDL Group ID:	60106		
VAN-F22R_MAR01A02	Maracossic Creek	CAROLINE CO KING AND QUEEN CO	Segment begins at the confluence with Beverly Run and continues downstream until the confluence with the Mattaponi River.
VA Overall AU Category: <b>5A</b> Use	Impairment 4.28 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60106 <b>2006 2018</b>	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 13 samples - 30.8%) were recorded at DEQ's ambient water quality monitoring station (8-MAR003.24) at the Route 627 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	s: Source Unknown	
TMDL Watershed Name:		Matta River	
TMDL Group ID:	00860		
VAN-F18R_MTA01A00	Matta River	CAROLINE CO SPOTSYLVANIA CO	Segment begins at the confluence with an unnamed tributary to the Matta River, approximately 0.5 rivermile upstream from the Route 632 bridge, and continues downstream until the confluence with the Poni River, forming the Mattaponi River.
VA Overall AU Category: <b>5A</b> Use	Impairment 11.14 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00860 <b>2006 2016</b>	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 11 samples - 18.2%) were recorded at DEQ's ambient water quality monitoring station (8-MTA001.69) at the Route 632 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2004.
	Sources	s: Source Unknown	
TMDL Watershed Name:		Mattaponi River	•
TMDL Group ID:	00326		
VAN-F21R_MPN01B02	Mattaponi River	KING AND QUEEN CO KING WILLIAM CO	Segment begins at the confluence with Maracossic Creek and continues downstream until the confluence with Gravel Run.
VA Overall AU Category: <b>5C</b> Use	Impairment 8.15 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	00326 <b>2002 2010</b>	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MPN054.17) at the Route 628 bridge and USGS station 01674500 to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. 27 of 131 samples (20.6%) and 24 of146 samples (16.4%), respectively, were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources	s: Natural Conditions - Water Quality Standards Use Attaina	ability Analyses Needed

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID:

00440

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F23E\_MPN02A98 Mattaponi River KING AND QUEEN CO From the limit of tide above the Route 360 bridge to Aylett Creek.

KING WILLIAM CO

MPNTF

VA Overall AU Category: 5A
Use Impairment 0.16 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic **Oxygen, Dissolved** 00440 **2006 2010** VAP-F23E-03 (DO)

Life

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 Sources: Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

Mattaponi River TMDL Watershed Name:

> TMDL Group ID: 00440

VAP-F23E\_MPN03A06 Mattaponi River KING AND QUEEN CO Aylett Creek to Garnetts Creek.

KING WILLIAM CO

**MPNTF** 

VA Overall AU Category:

**Impairment** 1.71 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

> The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

> However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03 (DO) Life

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 Sources: Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** 

York River Basin

TMDL Watershed Name: Mattaponi River

> TMDL Group ID: 00440

VAP-F23E\_ZZZ01A00 **Unsegmented estuaries in F23** KING AND QUEEN CO Unsegmented portion KING WILLIAM CO

**MPNTF** 

VA Overall AU Category:

**Impairment** 0.10 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life 00440 2006 2010 VAP-F23E-03 Oxygen, Dissolved

> The CB standards were implemented during the 2006 cycle. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

The Shallow Water Use was considered fully supporting due to acceptable SAV acreage and there was insufficient data to assess the Migratory Spawning and Nursery Use.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03 (DO)

Life

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

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Assessment
Unit ID
Waterbody Name
City / County
Assessment Unit Description

York River Basin

TMDL Watershed Name:

Mattaponi River

TMDL Group ID:

Sources: Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F24E\_MPN03A98 Mattaponi River KING AND QUEEN CO Garnetts Creek to tidal freshwater/oligohaline boundary at approximately

KING WILLIAM CO river mile 18

**MPNTF** 

VA Overall AU Category: **5A** 

Use Impairment 1.15 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 00440 **2006 2010** VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 00440 2010 VAP-F23E-03 Open-Water Aquatic Oxygen, Dissolved 2006 Life The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators. However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

VA Overall AU Category:

Use

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F24E\_MPN03B02 Mattaponi River KING AND QUEEN CO Tidal freshwater/oligohaline boundary to Melrose Landing at Route 602

KING WILLIAM CO

MPNOH

Impairment 0.42 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F24E-02

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

Life

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 Sources: Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F24E\_MPN03C06 Mattaponi River KING AND QUEEN CO Melrose Landing (Route 602) to Heartquake Creek.

KING WILLIAM CO

MPNOH

VA Overall AU Category: **5A** 

Use Impairment 0.72 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F24E-02

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

Life

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 Sources: Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** 

York River Basin

VA Overall AU Category:

TMDL Watershed Name: Mattaponi River

> TMDL Group ID: 00440

VAP-F24E\_ZZZ01A00 Unsegmented estuaries in F24 KING AND QUEEN CO Unsegmented portion of the watershed within MPNTF

KING WILLIAM CO

Impairment 0.05 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

> The CB standards were implemented during the 2006 cycle. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

Life

The CB standards were implemented during the 2006 cycle. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

Mattaponi River TMDL Watershed Name:

TMDL Group ID:

00440

VAP-F24E\_ZZZ02A06 Unsegmented estuaries in F24 KING AND QUEEN CO KING WILLIAM CO

Unsegmented portion of the watershed within MPNOH

VA Overall AU Category:

Use

Impairment 0.10 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

> The CB standards were implemented during the 2006 cycle. The oligonaline Mattaponi failed the default CB 30-day open water summer and non-summer dissolved oxygen criteria. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

00440 2006 2010 VAP-F23E-03 Open-Water Aquatic Oxygen, Dissolved

Life

The CB standards were implemented during the 2006 cycle. The oligonaline Mattaponi failed the default CB 30-day open water summer and non-summer dissolved oxygen criteria. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F25E\_MPN05A00 Mattaponi River KING AND QUEEN CO From transition zone boundary at Heartquake Creek to VDH-DSS 049-

KING WILLIAM CO 004B, 11/5/2004.

**MPNOH** 

VA Overall AU Category: 5A

Use Impairment 1.30 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 00440 **2006 2010** VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 00440 2010 VAP-F23E-03 Open-Water Aquatic Oxygen, Dissolved 2006 Life The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators. However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F25E\_MPN05B06 Mattaponi River KING AND QUEEN CO From VDH-SFC 049-004B, 11/5/2004 to the oligonaline/York mesohaline

KING WILLIAM CO boundary.

**MPNOH** 

VA Overall AU Category: **5A** 

Use Impairment 0.38 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 00440 **2006 2010** VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin Mattaponi River TMDL Watershed Name: TMDL Group ID: 00440 00440 2010 VAP-F23E-03 Open-Water Aquatic Oxygen, Dissolved 2006 Life The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators. However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** 

York River Basin

VA Overall AU Category:

TMDL Watershed Name: Mattaponi River

> TMDL Group ID: 00440

> > 5A

VAP-F25E\_MPN06A04 Mattaponi River KING AND QUEEN CO The Mattaponi oligohaline/York mesohaline boundary downstream to mouth

KING WILLIAM CO at York River.

**YRKMH** 

Use **Impairment** 0.21 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

2010 VAP-F23E-03 Oxygen, Dissolved 00440 2006 Aquatic Life

> The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved VAP-F23E-03

Life

2006 00440 2010

> The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

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Assessment
Unit ID
Waterbody Name
City / County
Assessment Unit Description

York River Basin

TMDL Watershed Name:

Mattaponi River

TMDL Group ID:
O0440

Sources: Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F25E\_MPN06B06 Mattaponi River KING AND QUEEN CO DS of VDH-DSS condemnation 049-004C to mouth at York River.

KING WILLIAM CO

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.64 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 00440 **2006 2010** VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

Life

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d)

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

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Assessment Unit ID	Waterbody Name		City / Co	ounty	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Ма	ttaponi Rive	er
TMDL Group ID:	00440				
	Sources:	Sources Outside Sta Wet Weather Discha			on of Stormwater, SSO or CSO)
VAP-F25E_ZZZ01A00	Unsegmented estuaries in F25		KING AND QU KING WILL		Unsegmented portion of the watershed.
					MPNOH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.15 SQUARE MILI	ES TMDL Group ID	First Listed on 30	3(d) TMDL Sched	dule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00440	2006	2010	VAP-F23E-03
					During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.
	Sources:	Agriculture Atmospheric Depos	ition Nitrogon		
		Industrial Point Sou	•		
		Internal Nutrient Red	cycling		
		Loss of Riparian Ha			
		Municipal Point Sou Sources Outside Sta	•	Rorders	
					on of Stormwater, SSO or CSO)
Open-Water Aquatic	Oxygen, Dissolved	00440	2006	2010	VAP-F23E-03
Life					During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.
	Sources:	Agriculture			
		Atmospheric Deposition Industrial Point Soul	•		
		Internal Nutrient Re	· ·		
		Loss of Riparian Ha			
		Municipal Point Sou	•		
		Sources Outside Sta Wet Weather Discha			on of Stormwater, SSO or CSO)
		wet weather discha	arges (Point Sour	ce and Combination	on of Stormwater, 550 of C50)

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**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** 

T7 1	<b>D</b> •	n	•
Variz	River	KΛIG	TIM
LUIN	MIVEI	Dus	uri

Mattaponi River TMDL Watershed Name:

00440

TMDL Group ID:

VAP-F25E\_ZZZ02A06 Unsegmented estuaries in F25 KING AND QUEEN CO Unsegmented portion of the watershed within SFC 049-004B, 11/5/2004.

KING WILLIAM CO

**MPNOH** 

VA Overall AU Category:

**Impairment** 0.01 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

> During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligonaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic 00440 2006 VAP-F23E-03 Oxygen, Dissolved 2010

Life

During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 00440

VAP-F25E\_ZZZ03A06 Unsegmented estuaries in F25 KING AND QUEEN CO Unsegmented portion of the watershed within SFC 049-004C, 11/5/2004.

KING WILLIAM CO

YRKMH

VA Overall AU Category: **5A** 

Use Impairment 0.03 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 00440 **2006 2010** VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The mesohaline York (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the default CB 30-day open water summer criteria and the

SAV acreage requirements. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 00440 2006 2010 VAP-F23E-03

Life

During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody	y Name	City / Coun	ity	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Matta	poni River	
TMDL Group ID	01113	3			
VAP-F24E_MPN03B02	Mattaponi River		KING AND QUEE KING WILLIAM		Tidal freshwater/oligohaline boundary to Melrose Landing at Route 602
VA Overall AU Category: <b>5A</b> Use	Impairment	0.42 SQUARE MILES TMDL Group ID	First Listed on 202(d)	TMDI Cabadui	MPNOH
Aquatic Life	Chloride	0.42 SQUARE MILES TMDL GROUP ID	2004	2016	le Impairment Specific Comments and/or Impairment Specific VA Category VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
		Sources: Natural Conditions	- Water Quality Standa	ards Use Attaina	ability Analyses Needed
Wildlife	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
		Sources: Natural Conditions	- Water Quality Standa	ards Use Attaina	
VAP-F24E_MPN03C06	Mattaponi River		KING AND QUEE KING WILLIAM		Melrose Landing (Route 602) to Heartquake Creek.
					MPNOH
VA Overall AU Category: <b>5A</b> Use	Impairment	0.72 SQUARE MILES TMDL Group ID	First Listed on 303(d)	TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
		Sources: Natural Conditions	•		
Wildlife	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
		Sources: Natural Conditions	- Water Quality Standa	ards Use Attaina	ability Analyses Needed

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Assessment Unit ID	Waterbody Name		City / Count	у	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Matta	oni River	
TMDL Group ID:	01113				
VAP-F25E_MPN05A00	Mattaponi River		KING AND QUEE KING WILLIAM		From transition zone boundary at Heartquake Creek to VDH-DSS 049-004B, 11/5/2004.
					MPNOH
VA Overall AU Category: <b>5A</b> Use Aquatic Life	Impairment 1.30 SQUARE N	MILES TMDL Group ID 01113	First Listed on 303(d) <b>2004</b>	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
	Source	es: Natural Conditions	- Water Quality Standa	rds Use Attaina	ability Analyses Needed
Wildlife	Chloride	01113	2004	2016	VAP-F24E-02
	Source	es: Natural Conditions	- Water Quality Standa	rds Use Attaina	In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
			-		· ·
VAP-F25E_MPN05B06	Mattaponi River		KING AND QUEE KING WILLIAM		From VDH-SFC 049-004B, 11/5/2004 to the oligonaline/York mesonaline boundary.
					MPNOH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.38 SQUARE N	MILES TMDL Group ID	First Listed on 303(d)	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
	Sourc	es: Natural Conditions	- Water Quality Standa	ds Use Attaina	ability Analyses Needed
Wildlife	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
	Sourc	es: Natural Conditions	- Water Quality Standa	ds Use Attaina	ability Analyses Needed

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Assessment Unit ID	Waterbody Name		City / Coun	ity	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Matta	poni River	
TMDL Group ID:	01113				
VAP-F25E_MPN06A04	Mattaponi River		KING AND QUEE KING WILLIAM		The Mattaponi oligohaline/York mesohaline boundary downstream to mouth at York River.
					YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.21 SQUA	ARE MILES TMDL Group ID	First Listed on 303(d)	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
		Sources: Natural Conditions	•		
Wildlife	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligonaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
	5	Sources: Natural Conditions	s - Water Quality Standa	ards Use Attaina	ability Analyses Needed
VAP-F25E_MPN06B06	Mattaponi River		KING AND QUEE		DS of VDH-DSS condemnation 049-004C to mouth at York River.
					YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.64 SQUA	ARE MILES TMDL Group ID	) First Listed on 303(d)	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
	5	Sources: Natural Conditions	s - Water Quality Standa	ards Use Attaina	ability Analyses Needed
Wildlife	Chloride	01113	2004	2016	VAP-F24E-02
					In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.
		Sources: Natural Conditions	s - Water Quality Standa	ards Use Attaina	ability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Mattapo	ni River
TMDL Group ID:	01124		
VAP-F25E_MPN06A04	Mattaponi River	KING AND QUEEN ( KING WILLIAM CO	
VA Overall AU Category: <b>5A</b> Use Aquatic Life	Impairment 0.21 SQUARE MILES T Estuarine Bioassessments	MDL Group ID First Listed on 303(d) TN 01124 <b>2004</b> 2	YRKMH  IDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category  VAP-F25E-03
	Sources: Sou	rce Unknown	B-IBI segment YRKMHa has been considered impaired in the 2004 and 2006 cycles. The source of the impairment is considered unknown.
VAP-F25E_MPN06B06	Mattaponi River	KING AND QUEEN ( KING WILLIAM CO	
VA Overall AU Category: <b>5A</b> Use	Impairment 0.64 SQUARE MILES T	MDL Group ID First Listed on 303(d) TN	
Aquatic Life	Estuarine Bioassessments	01124 <b>2004</b> 2	2016 VAP-F25E-03
	Sources: Sou	rce Unknown	B-IBI segment YRKMHa has been considered impaired in the 2004 and 2006 cycles. The source of the impairment is considered unknown.
TMDL Group ID:	10017		
VAP-F23E_MPN02A98	Mattaponi River	KING AND QUEEN ( KING WILLIAM CO	
VA Overall AU Category: <b>5A</b> Use	Impairment 0.16 SQUARE MILES T	MDL Group ID First Listed on 303(d) TN	MPNTF  IDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue		2018 VAP-F23R-06 (PCBs)
			The VDH issued a fish consumption advisory on 12/13/2004 for PCBs in the Mattaponi River from Herring Creek to Aylett Creek. The advisory recommends that adults eat no more than 2 meals/month of anadromous striped bass, white perch, and gizzard shad.
	Sources: Sou	rce Unknown	

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Assessment Unit ID	Waterbody Name	City / Co	unty	Assessment Unit Description		
York River Basin						
TMDL Watershed Name:		Mattaponi River				
TMDL Group ID:	10017					
VAP-F23R_MPN01A00	Mattaponi River	KING AND QU KING WILL		From the watershed boundary (Herring Creek) to the limit of tide near the Route 360 bridge.		
VA Overall AU Category: <b>5A</b> Use		IDL Group ID First Listed on 30.				
Fish Consumption	PCB in Fish Tissue	10017 <b>2002</b>	2018	VAP-F23R-06		
				During the 2006 cycle, the 2003 monitoring indicated exceedances of the fish tissue level for PCBs in 2 species (impaired). In addition, the VDH issued a fish consumption advisory for PCBs from Herring Creek to Aylett Creek which recommends that adults eat no more than 2 meals/month of anadromous striped bass, white perch, and gizzard shad.		
	Sources: Sources	ce Unknown				
TMDL Group ID:	10018					
VAP-F23E_MPN02A98	Mattaponi River	KING AND QU KING WILL		From the limit of tide above the Route 360 bridge to Aylett Creek.		
				MPNTF		
VA Overall AU Category: <b>5A</b> Use	Impairment 0.16 SQUARE MILES TM	IDL Group ID First Listed on 303	B(d) TMDL Sched	dule Impairment Specific Comments and/or Impairment Specific VA Category		
Fish Consumption	Mercury in Fish Tissue	10018 <b>2006</b>	2018	VAP-F23R-05		
				During the 2006 cycle, 2003 fish tissue monitoring at 8-MPN029.08 indicated exceedance of the mercury screening value. Also, the VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.		
		spheric Deposition - Toxics ce Unknown				
VAP-F23E_MPN03A06	Mattaponi River	KING AND QU KING WILL		Aylett Creek to Garnetts Creek.		
		KINO WILL	AW OO	MPNTF		
VA Overall AU Category: <b>5A</b> Use	Impairment 1.71 SQUARE MILES TM	IDL Group ID First Listed on 303	B(d) TMDL Sched	dule Impairment Specific Comments and/or Impairment Specific VA Category		
Fish Consumption	Mercury in Fish Tissue	10018 <b>2006</b>	2018	VAP-F23R-05		
				During the 2006 cycle, 2003 fish tissue monitoring at 8-MPN029.08 indicated exceedance of the mercury screening value. Also, the VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.		
		spheric Deposition - Toxics ce Unknown				

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Assessment Unit ID	Waterbody Name	City / Count	/	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Mattap	oni River	r
TMDL Group ID.	10018			
VAP-F23R_MPN01A00	Mattaponi River	KING AND QUEEI KING WILLIAM		From the watershed boundary (Herring Creek) to the limit of tide near the Route 360 bridge.
VA Overall AU Category: 5A Use Fish Consumption	Impairment 4.72 MILES  Mercury in Fish Tissue	TMDL Group ID First Listed on 303(d) 10018 <b>2006</b>	TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category VAP-F23R-05
				During the 2006 cycle, the 2003 monitoring indicated 2 exceedances of the mercury screening value (observed effect). In addition, the VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.
	Sources:	Source Unknown		
VAP-F24E_MPN03A98	Mattaponi River	KING AND QUEEI KING WILLIAM		Garnetts Creek to tidal freshwater/oligohaline boundary at approximately river mile 18
				MPNTF
VA Overall AU Category: 5A Use Fish Consumption	Impairment 1.15 SQUARE MILES  Mercury in Fish Tissue	5 TMDL Group ID First Listed on 303(d) 10018 <b>2006</b>	TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category VAP-F23R-05
·	·			The VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.
		Atmospheric Deposition - Toxics Source Unknown		
VAP-F24E_MPN03B02	Mattaponi River	KING AND QUEE! KING WILLIAM		Tidal freshwater/oligohaline boundary to Melrose Landing at Route 602
VA Overall AU Category: <b>5A</b> Use	Impairment 0.42 SQUARE MILES	5 TMDL Group ID First Listed on 303(d)	TMDL Schedu	MPNOH  Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	10018 <b>2006</b>	2018	VAP-F23R-05
				The VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.
		Atmospheric Deposition - Toxics Source Unknown		

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 10089

VAP-F24E\_MPN03A98 Mattaponi River KING AND QUEEN CO Garnetts Creek to tidal freshwater/oligohaline boundary at approximately

KING WILLIAM CO river mile 18

MPNTF

VA Overall AU Category: 5A

Use Impairment 1.15 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life pH 10089 2006 2018 VAP-F24E-01

The Mattaponi River from Garnetts Creek downstream to the oligohaline boundary was considered impaired of the Aquatic Life Use in 2006 based on a pH violation rate of 2/16 at 8-MPN017.45. There is only low confidence in the impairment in this segment due to an acceptable violation rate at 8-MPN017.46, however the Mattaponi River upstream of Garnetts Creek has confirmed pH violations due to natural marsh conditions. Further monitoring at this station is recommended to confirm the impairment in this portion of the Mattaponi.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: 10090

VAP-F25E\_MPN05A00 Mattaponi River KING AND QUEEN CO From transition zone boundary at Heartquake Creek to VDH-DSS 049-

KING WILLIAM CO 004B, 11/5/2004

MPNOH

VA Overall AU Category: **5A** 

Use Impairment 1.30 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Recreation **Enterococcus** 10090 **2006 2018** VAP-F25E-01

The Mattaponi from the transitional boundary downstream to its mouth was assessed as not supporting the Recreation Use based on an enterococci violation rate of 2/6 at 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to confirm the impairment because the fecal coliform violation rate was acceptable (0/59).

Sources: Source Unknown

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Assessment Unit ID	Waterbody Name	City / Count	ty Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Mattap	poni River
TMDL Group ID:	10090		
VAP-F25E_MPN05B06	Mattaponi River	KING AND QUEE KING WILLIAM	
			MPNOH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.38 SQUARE MILES TMDI	L Group ID First Listed on 303(d)	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	10090 <b>2006</b>	<b>2018</b> VAP-F25E-01
			The Mattaponi from the transitional boundary downstream to its mouth was as as not supporting the Recreation Use based on an enterococci violation rate o 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to c the impairment because the fecal coliform violation rate was acceptable (0/59)
	Sources: Source	Unknown	
VAP-F25E_MPN06A04	Mattaponi River	KING AND QUEEI KING WILLIAM	
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.21 SQUARE MILES TMDI	L Group ID First Listed on 303(d)	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	10090 <b>2006</b>	<b>2018</b> VAP-F25E-01
			The Mattaponi from the transitional boundary downstream to its mouth was as as not supporting the Recreation Use based on an enterococci violation rate o 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to c the impairment because the fecal coliform violation rate was acceptable (0/59)
	Sources: Source	Unknown	
VAP-F25E_MPN06B06	Mattaponi River	KING AND QUEE KING WILLIAM	
		KINO WILLIAM	YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.64 SQUARE MILES TMDI	L Group ID First Listed on 303(d)	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	10090 <b>2006</b>	<b>2018</b> VAP-F25E-01
			The Mattaponi from the transitional boundary downstream to its mouth was as as not supporting the Recreation Use based on an enterococci violation rate o 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to c the impairment because the fecal coliform violation rate was acceptable (0/59)
	Sources: Source	Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Mattaponi Rive	er
TMDL Group ID:	10091		
/AP-F25E_MPN05B06	Mattaponi River	KING AND QUEEN CO KING WILLIAM CO	From VDH-SFC 049-004B, 11/5/2004 to the oligohaline/York mesohaline boundary.
			MPNOH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.38 SQUARE MILES TMDL G	iroup ID First Listed on 303(d) TMDL Scheo	dule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform 10	<b>2006 2018</b>	VAP-F25E-02
			VDH Shellfish Condemnation 049-004B, 11/5/2004
	Sources: Source Ur	known	
/AP-F25E_ZZZ02A06	Unsegmented estuaries in F25	KING AND QUEEN CO KING WILLIAM CO	Unsegmented portion of the watershed within SFC 049-004B, 11/5/2004.
		KING WILLIAM CO	MPNOH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.01 SQUARE MILES TMDL G	iroup ID First Listed on 303(d) TMDL Scheo	dule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform 10	<b>2006 2018</b>	VAP-F25E-02
			VDH-DSS Condemnation 049-004B, 11/5/2004
	Sources: Source Ur	ıknown	

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 10092

VAP-F25E\_MPN06A04 Mattaponi River KING AND QUEEN CO The Mattaponi oligohaline/York mesohaline boundary downstream to mouth

KING WILLIAM CO at York River.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.21 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 10092 2006 2010 VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 10092 **2006 2010** VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the SAV acreage goals.

Mattaporii rivers, falled the SAV acreage

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 10092

VAP-F25E\_MPN06B06 Mattaponi River KING AND QUEEN CO DS of VDH-DSS condemnation 049-004C to mouth at York River.

KING WILLIAM CO

YRKMH

VA Overall AU Category: **5A** 

Use Impairment 0.64 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 10092 2006 2010 VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 10092 **2006 2010** VAP-F23E-03

The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the SAV acreage goals.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Mattaponi River

TMDL Group ID: 10092

VAP-F25E\_ZZZ03A06 Unsegmented estuaries in F25 KING AND QUEEN CO Unsegmented portion of the watershed within SFC 049-004C, 11/5/2004.

KING WILLIAM CO

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.03 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 10092 2006 2010 VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The mesohaline York (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the default CB 30-day open water summer criteria and the SAV acreage requirements. The TMDL is due in 2010.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 10092 **2006 2010** VAP-F23E-03

implemented. The mesohaline York (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the default CB 30-day open water summer criteria and the

SAV acreage requirements. The TMDL is due in 2010.

During the 2006 cycle, the Chesapeake Bay water quality standards were

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Mattapo	ni River
TMDL Group ID:	60104		
VAN-F17R_MPN02A02	Mattaponi River	CAROLINE CO	Segment begins at the confluence with Campbell Creek and continues downstream until the confluence with the South River.
VA Overall AU Category: <b>5A</b> Use	Impairment 5.90 MILES	TMDL Group ID First Listed on 303(d) TI	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60104 <b>2006</b>	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 14 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station (8-MPN094.79) at the Route 605 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Source	s: Source Unknown	
TMDL Group ID:	60117		
VAN-F17R_MPN02A02	Mattaponi River	CAROLINE CO	Segment begins at the confluence with Campbell Creek and continues downstream until the confluence with the South River.
VA Overall AU Category: <b>5A</b> Use	Impairment 5.90 MILES	TMDL Group ID First Listed on 303(d) TI	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	60117 <b>2006</b>	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MPN094.79) at the Route 605 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) Aquatic Life Use goal. Five of 30 samples (16.7%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Source	s: Source Unknown	
TMDL Watershed Name:		Mechum	ps Creek
TMDL Group ID:	10016		
VAP-F12R_MCP03A06	Mechumps Creek	HANOVER CO	Mechumps Creek from its headwaters downstream to the confluence with XEG.
VA Overall AU Category: <b>5A</b> Use Aquatic Life	Impairment 1.03 MILES <b>pH</b>	TMDL Group ID First Listed on 303(d) TI 10016 <b>2006</b>	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category  2018 VAP-F12R-05
	Source	s: Source Unknown	During the 2006 cycle, the pH violation rate at 8-MCP009.56 was 4/17.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Monquin	Creek
TMDL Group ID:	00247		
VAP-F13R_MNQ01A98	Monquin Creek	KING WILLIAM CO	From the headwaters of Webb Creek downstream to the swampy area on Monquin Creek around river mile 2.
VA Overall AU Category: <b>5A</b> Use Recreation	Impairment 11.83 MILES  Escherichia coli	TMDL Group ID First Listed on 303(d) TMI 00247 <b>2006 2</b>	VAP-F13R-04  In 1998, Moncuin Creek was assessed as fully supporting but threatened of the Recreation use because of fecal coliform violations at the Route 618 bridge.
			In the 2002 cycle, the segment was extended to incorporate the station on Webb Creek and was assessed not supporting of the Aquatic Life and Recreation Uses because of fecal coliform and pH exceedances. The TMDLs are due in 2014.  During the 2006 cycle, the segment remained impaired for pH and the bacteria impairment was converted to E. coli. The TMDL is currently under development.  E. coli 4/21 at 8-MNQ004.19 (Rt. 618) pH 5/33 at the 8-MNQ004.19; pH 1/1 at 8-WEB002.00 (1995 study)
	Sources:	Source Unknown	pi i i/i at 6-WEB002.00 (1993 Study)
TMDL Group ID:	01106		
VAP-F13R_MNQ01A98	Monquin Creek	KING WILLIAM CO	From the headwaters of Webb Creek downstream to the swampy area on Monquin Creek around river mile 2.
VA Overall AU Category: 5A Use Aquatic Life	Impairment 11.83 MILES pH		In 1998, Moncuin Creek was assessed as fully supporting but threatened of the Recreation use because of fecal coliform violations at the Route 618 bridge.  In the 2002 cycle, the segment was extended to incorporate the station on Webb Creek and was assessed not supporting of the Aquatic Life and Recreation Uses because of fecal coliform and pH exceedances. The TMDLs are due in 2014.  During the 2006 cycle, the segment remained impaired for pH and the bacteria impairment was converted to E. coli. The TMDL is currently under development.  E. coli 4/21 at 8-MNQ004.19 (Rt. 618) pH 5/33 at the 8-MNQ004.19; pH 1/1 at 8-WEB002.00 (1995 study)
	Sources:	Natural Conditions - Water Quality Standards U	Jse Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description					
York River Basin								
TMDL Watershed Name:	Newfound River							
TMDL Group ID:	01098							
VAP-F05R_NFD01A00	Newfound River	HANOVER CO	Mainstem downstream of Needstan Creek.					
VA Overall AU Category: <b>5A</b> Use	Impairment 10.61 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category					
Recreation	Fecal Coliform	01098 <b>2004 2016</b>	VAP-F05R-01 (01098)					
			During the 2004 cycle, the segment was assessed not supporting of the Recreation Use based on a fecal coliform violation rate of 5/18 at the Route 667 bridge (8-NFD002.26). No new data has been collected since 2001.					
	Sources:	Source Unknown						
TMDL Watershed Name:		Ni River						
TMDL Group ID:	00857							
VAN-F15R_NIR01A00	Ni River	CAROLINE CO SPOTSYLVANIA CO	Segment begins at the confluence of an unnamed tributary to the Ni River, approximately 0.95 rivermiles downstream from the Route 608 bridge, and continues downstream until the confluence with the Po River, forming the Poni River.					
VA Overall AU Category: <b>5C</b> Use	Impairment 5.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category					
Aquatic Life	рН	00857 <b>2004 2016</b>	Sufficient exceedances of the instantaneous pH criterion (3 of 23 samples - 13.0%) were recorded at DEQ's ambient water quality monitoring station (8-NIR003.96) at the Route One bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment. The three values were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.					
	Sources:	Natural Conditions - Water Quality Standards Use Attainal	pility Analyses Needed					
TMDL Watershed Name:	North Anna River							
TMDL Group ID:	60101							
VAN-F06R_NAR01A02	North Anna River	LOUISA CO ORANGE CO	Segment begins at the confluence with Beaver Creek and continues downstream until the confluence with Hickory Creek.					
VA Overall AU Category: <b>5A</b> Use	Impairment 3.07 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category					
Recreation	Fecal Coliform	60101 <b>2006 2018</b>	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 12 samples - 16.7%) were recorded at DEQ's ambient water quality monitoring station (8-NAR061.09) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.					
	Sources:	Source Unknown	or the recreation use goal for the 2000 water quality assessment.					

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Assessment Unit ID	Waterbody Name	City / Coun	Assessment Unit Description					
York River Basin								
TMDL Watershed Name:	Northeast Creek							
TMDL Group ID	00211							
VAP-F09R_NST01A98	Northeast Creek	SPOTSYLVANIA	A CO	Headwaters to mouth				
VA Overall AU Category: <b>5A</b>				Segment extended during the 2006 cycle.				
VA Overall AU Category: <b>5A</b> Use	Impairment 18.04 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category				
Recreation	Escherichia coli	00211 <b>2006</b>	2014	VAP-F09R-01				
				During the 2002 cycle, the segment was assessed not supporting of the Recreation Use because of fecal coliform impairments at the Route 622 bridge (8-NST003.46).				
				During the 2006 cycle, additional monitoring was conducted in the watershed. The segment was extended to incorporate all of Northeast Creek and remains impaired for E. coli coliform and now E. coli, based on sampling at 8-NST003.46 and violations at the TMDL stations. The TMDL for bacteria is in 2014.				
	Sources	Source Unknown						
Recreation	Fecal Coliform	00211 <b>2002</b>	2014	VAP-F09R-01				
				During the 2002 cycle, the segment was assessed not supporting of the Recreation Use because of fecal coliform impairments at the Route 622 bridge (8-NST003.46).				
				During the 2006 cycle, additional monitoring was conducted in the watershed. The segment was extended to incorporate all of Northeast Creek and remains impaired for E. coli coliform and now E. coli, based on sampling at 8-NST003.46 and violations at the TMDL stations. The TMDL for bacteria is in 2014.				
	Sources	Source Unknown						
TMDL Group ID	01100							
VAP-F09R_NST01A98	Northeast Creek	SPOTSYLVANIA	A CO	Headwaters to mouth				
				Segment extended during the 2006 cycle.				
VA Overall AU Category: <b>5A</b> Use	Impairment 18.04 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category				
Aquatic Life	рН	01100 <b>2004</b>	2014	VAP-F09R-01 01100 (pH)				
				Northeast Creek was originally considered impaired for pH in 2004. The TMDL is due in 2016. During the 2006 cycle, additional monitoring was conducted in the watershed. The segment was extended to incorporate all of Northeast Creek and remains impaired for pH based on sampling at 8-NST003.46 and violations at the TMDL stations.				
				8-NST003.46 (A ,TM) Monitored by NVRO. 8-NST000.58 (TM) 8-NST003.46 (TM) 8-NST007.84 (TM) 8-NST011.67 ™				
	Sources	Natural Conditions - Water Quality Standa	ards Use Attain	ability Analyses Needed				

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

Pamunkey & Mattaponi River (YRKMH) TMDL Watershed Name:

TMDL Group ID:

10088

VAP-F14E\_PMK07A04 **Pamunkey River** KING WILLIAM CO Mesohaline boundary to mouth

**NEW KENT CO** 

**YRKMH** 

VA Overall AU Category: 5A

**Impairment** Use

0.39 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 10088 2006 2010 VAP-F14E-05

> During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 

10088

2006

2010

VAP-F14E-05

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey & Mattaponi River (YRKMH)

TMDL Group ID:

10088

VAP-F14E\_ZZZ03A06 Unsegmented estuaries in F14

KING WILLIAM CO NEW KENT CO Unsegmented portion of the watershed within SFC 004A & YRKMH

VA Overall AU Category: **5A** 

Use

Impairment 0.08 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 10088 2006 2010 VAP-F14E-05

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes)

10088

2006

2010

VAP-F14E-05

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen

criteria and the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name City / County		Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Pamunkey and Mattapor	ni Rivers
TMDL Group ID:	10087		
VAP-F14E_PMK06B06	Pamunkey River	KING WILLIAM CO NEW KENT CO	VDH-DSS SFC 004A to mesohaline boundary PMKOH
VA Overall AU Category: 5A Use Shellfishing	Impairment 0.59 SQUARE MILES TMDL Group Fecal Coliform 10087	o ID First Listed on 303(d) TMDL Schedu 2006 2018	le Impairment Specific Comments and/or Impairment Specific VA Category VAP-F14E-04
	Sources: Source Unknow	wn	Portion of VDH-DSS SFC 049-004A, 11/5/2004
VAP-F14E_PMK07A04	Pamunkey River	KING WILLIAM CO NEW KENT CO	Mesohaline boundary to mouth YRKMH
VA Overall AU Category: 5A Use Shellfishing	Impairment 0.39 SQUARE MILES TMDL Group Fecal Coliform 10087	o ID First Listed on 303(d) TMDL Schedu 7 2006 2018	le Impairment Specific Comments and/or Impairment Specific VA Category VAP-F14E-04
	Sources: Source Unknow	wn	Portion of VDH-DSS SFC 049-004A, 11/5/2004
VAP-F14E_ZZZ02B06	Unsegmented estuaries in F14	KING WILLIAM CO NEW KENT CO	Unsegmented portion of the watershed within SFC 004A & PMKOH
VA Overall AU Category: 5A Use Shellfishing	Impairment 0.06 SQUARE MILES TMDL Group Fecal Coliform 10087	D ID First Listed on 303(d) TMDL Schedu 2006 2018	le Impairment Specific Comments and/or Impairment Specific VA Category VAP-F14E-04 Portion of VDH-DSS shellfish condemnation 049-004A, 11/5/2004
	Sources: Source Unknown	wn	
VAP-F14E_ZZZ03A06	Unsegmented estuaries in F14	KING WILLIAM CO NEW KENT CO	Unsegmented portion of the watershed within SFC 004A & YRKMH
VA Overall AU Category: 5A Use Shellfishing	Impairment 0.08 SQUARE MILES TMDL Group Fecal Coliform 10087	2010 First Listed on 303(d) TMDL Schedu 2018	le Impairment Specific Comments and/or Impairment Specific VA Category VAP-F14E-04
	Sources: Source Unknow	wn	Portion of VDH-DSS shellfish condemnation 049-004A, 11/5/2004

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Assessment Unit ID	Waterbody Name		City / Count	у	Assessment Unit Description		
York River Basin							
TMDL Watershed Name:		Pamunkey and Mattaponi Rivers					
TMDL Group ID:	10087						
VAP-F25E_MPN06B06	Mattaponi River		KING AND QUEEN CO KING WILLIAM CO		DS of VDH-DSS condemnation 049-004C to mouth at York River.		
			KINO WILLIAM	00	YRKMH		
VA Overall AU Category: <b>5A</b> Use		ILES TMDL Group ID					
Shellfishing	Fecal Coliform	10087	2006	2018	VAP-F14E-04 (SF)		
	Source	es: Source Unknown			Portion of VDH-DSS condemnation 049-004A, 11/5/2004		
TMDL Watershed Name:			Pamur	key River	r		
TMDL Group ID:	01112						
VAP-F14E_PMK06A00	Pamunkey River		KING WILLIAM ( NEW KENT C		Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004, 00/5/2004		
					РМКОН		
VA Overall AU Category: <b>5A</b> Use	Impairment 3.40 SQUARE M	ILES TMDL Group ID	First Listed on 303(d)	TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category		
Aquatic Life	Chloride	01112	2004	2016	VAP-F14E-02		
					The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.		
	Source	s: Natural Conditions -	Water Quality Standar	ds Use Attaina	ability Analyses Needed		
Wildlife	Chloride	01112	2004	2016	VAP-F14E-02		
					The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.		
	Source	s: Natural Conditions -	Water Quality Standar	ds Use Attaina	ability Analyses Needed		

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Assessment Unit ID	Waterbody		dy Name		City / Coun	ty	Assessment Unit Description	
York River Basin	ı							
TMDL Watershed Name:		Pamunkey River						
TMDL Grou	ıp ID:	0111	12					
VAP-F14E_PMK06B06		Pamunkey River		KING WILLIAM CO NEW KENT CO			VDH-DSS SFC 004A to mesohaline boundary	
				NEW KENT CO			РМКОН	
VA Overall AU Category: Use	5A	Impairment	0.59 SQUARE MILES TMDL Grou	ıp ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category	
Aquatic Life		Chloride	0111	2	2004	2016	VAP-F14E-02	
							The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.	
			Sources: Natural Cond	itions	- Water Quality Standa	rds Use Attaina	bility Analyses Needed	
Wildlife		Chloride	0111	2	2004	2016	VAP-F14E-02	
							The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.	
			Sources: Natural Cond	itions	- Water Quality Standa	rds Use Attaina	bility Analyses Needed	
VAP-F14E_PMK07A04		Pamunkey River		KING WILLIAM CO NEW KENT CO			Mesohaline boundary to mouth	
					NEW KENT C		YRKMH	
VA Overall AU Category: Use	5A	Impairment	0.39 SQUARE MILES TMDL Grou	ıp ID	First Listed on 303(d)	TMDL Schedule	E Impairment Specific Comments and/or Impairment Specific VA Category	
Aquatic Life		Chloride	0111	2	2004	2016	VAP-F14E-02	
							The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.	
			Sources: Natural Cond	itions	- Water Quality Standa	rds Use Attaina	bility Analyses Needed	
Wildlife		Chloride	0111	2	2004	2016	VAP-F14E-02	
							The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.	
			Sources: Natural Cond	itions	- Water Quality Standa	rds Use Attaina	pility Analyses Needed	

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Assessment Unit ID	Waterbody Name		City / Count	y	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Pamur	key River	
TMDL Group ID:	01114				
VAP-F14E_PMK07A04	Pamunkey River	KING WILLIAM CO NEW KENT CO			Mesohaline boundary to mouth
VA Overall AU Category: <b>5A</b> Use	Impairment 0.39 SQUARE MILE	S TMDL Group ID Fir	ent Lietad on 202(d)	TMDL Cabadul	YRKMH
Use Aquatic Life	Estuarine Bioassessments	S IMDL Group ID Fir 01114	2004	2016	e Impairment Specific Comments and/or Impairment Specific VA Category VAP-F14E-06
, iquado 2.10	Estadime Biodessessiments	<b>31111</b>	2004	2010	B-IBI segment YRKMHa was initially assessed as impaired during the 2004 cycle. During the 2006 cycle, the segment remained impaired. The source of the impairment is unknown. The TMDL is due in 2016.
	Sources:	Source Unknown			
TMDL Group ID:	10015				
VAP-F13E_PMK01A98	Pamunkey River		HANOVER CO		Totopotomoy Creek (extent of tide) to Pampatike Landing.
					PMKTF
VA Overall AU Category: <b>5A</b> Use	Impairment 0.42 SQUARE MILE	S TMDL Group ID Fir	rst Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	10015	2006	2018	VAP-F13R-13
					A VDH Fish Consumption Advisory was issued on 9/30/2004 for mercury in blue catfish from Route 615 (Nelson Bridge Road) to the confluence with Jacks Creek near Liberty Hall. It is recommended that no more than 2 meals per month be eaten.
	Sources:	Atmospheric Depositio Source Unknown	on - Toxics		
VAP-F13E_PMK02A98	Pamunkey River		HANOVER CO		Pampatike Landing downstream to Jacks Creek.
					PMKTF
VA Overall AU Category: <b>5A</b> Use	Impairment 0.82 SQUARE MILE	S TMDL Group ID Fir	rst Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	10015	2006	2018	VAP-F13R-13
					A VDH Fish Consumption Advisory was issued on 9/30/2004 for mercury in blue catfish from Route 615 (Nelson Bridge Road) to the confluence with Jacks Creek near Liberty Hall. It is recommended that no more than 2 meals per month be eaten.
		Atmospheric Depositio Source Unknown	on - Toxics		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		key River	
TMDL Group ID:	10015		
VAP-F13R_PMK01A98	Pamunkey River	HANOVER CO KING WILLIAM C	From Nelson Bridge Road (Rt. 615) in F12 to Totopotomoy Cr (limit of tide)
VA Overall AU Category: <b>5A</b>	Impairment 12.22 MILES	THE CONTRACTOR OF THE CONTRACT	Segment extended in 2006
Use Figh Consumption	•	TMDL Group ID First Listed on 303(d) To 10015 <b>2006</b>	
Fish Consumption	Mercury in Fish Tissue	10015 <b>2006</b>	2018 VAP-F13R-13 A VDH Fish Consumption Advisory was issued on 9/30/2004 for mercury in blue catfish from Route 615 (Nelson Bridge Road) to the confluence with Jacks Creek nea Liberty Hall. It is recommended that no more than 2 meals per month be eaten.
		tmospheric Deposition - Toxics ource Unknown	
TMDL Group ID:	10085		
VAP-F14E_PMK05B00	Pamunkey River	KING WILLIAM CO NEW KENT CO	
VA Overall AU Category: <b>5A</b>	Incomiumant 4.24 annual unit		РМКОН
Use		TMDL Group ID First Listed on 303(d) T	
Aquatic Life	Estuarine Bioassessments	10085 <b>2006</b>	<ul> <li>VAP-F14E-01</li> <li>B-IBI segment PMKOHa is impaired during the 2006 cycle. The discriminant analysis tool attributed the benthic alteration o sediment contamination. The TMDL is due in 2018.</li> </ul>
	Sources: C	ontaminated Sediments	
VAP-F14E_PMK06A00	Pamunkey River	KING WILLIAM CO NEW KENT CO	
			РМКОН
VA Overall AU Category: <b>5A</b> Use	Impairment 3.40 SQUARE MILES	TMDL Group ID First Listed on 303(d) T	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	10085 <b>2006</b>	<b>2018</b> VAP-F14E-01
			B-IBI segment PMKOHa is impaired during the 2006 cycle. The suspected source was attributed to sediment contamination. The TMDL is due in 2018.
	Sources: C	ontaminated Sediments	

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Assessment Unit ID	Waterbody Name	(	City / County	Assessment Unit Description					
York River Basin									
TMDL Watershed Name:		Pamunkey River							
TMDL Group IL	10085			-					
VAP-F14E_PMK06B06	Pamunkey River		IG WILLIAM CO IEW KENT CO	VDH-DSS SFC 004A to mesohaline boundary					
		ľ	NEW REIVI CO	РМКОН					
VA Overall AU Category: <b>5A</b> Use		IILES TMDL Group ID First Lis	ted on 303(d) TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category					
Aquatic Life	Estuarine Bioassessments	10085 <b>20</b>	06 2018	VAP-F14E-01					
				B-IBI segment PMKOHa is impaired during the 2006 cycle. The suspected source was attributed to sediment contamination. The TMDL is due in 2018.					
	Source	es: Contaminated Sediments							
TMDL Group II	10086								
VAP-F14E_PMK06A00	Pamunkey River		IG WILLIAM CO IEW KENT CO	Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004, 00/5/2004					
				РМКОН					
VA Overall AU Category: <b>5A</b> Use		IILES TMDL Group ID First Lis	ted on 303(d) TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category					
Recreation	Enterococcus	10086 20	06 2018	VAP-F14E-03					
				The segment was considered impaired of the Recreation Use during the 2006 cycle due to an enterococci violation rate of 12/27 at 8-PMK006.36.					
	Source	es: Source Unknown							
VAP-F14E_PMK06B06	Pamunkey River		IG WILLIAM CO IEW KENT CO	VDH-DSS SFC 004A to mesohaline boundary					
				РМКОН					
VA Overall AU Category: <b>5A</b> Use		IILES TMDL Group ID First Lis	ted on 303(d) TMDL Schedul	le Impairment Specific Comments and/or Impairment Specific VA Category					
Recreation	Enterococcus	10086 20	06 2018	VAP-F14E-03					
				The segment was considered impaired of the Recreation Use during the 2006 cycle due to an enterococci violation rate of 12/27 at 8-PMK006.36.					
	Source	es: Source Unknown							

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**Assessment Assessment Unit Description Unit ID Waterbody Name** City / County York River Basin **Pamunkey River** TMDL Watershed Name: TMDL Group ID: 10086 **Pamunkey River** Mesohaline boundary to mouth VAP-F14E\_PMK07A04 KING WILLIAM CO **NEW KENT CO** YRKMH VA Overall AU Category: Impairment 0.39 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Recreation Enterococcus 10086 2006 2018 VAP-F14E-03 The Pamunkey River from Sweet Hall Landing to its mouth is considered impaired of the Recreation Use during the 2006 cycle due to an enterococci violation rate of 12/27 at 8-PMK006.36. Sources: Source Unknown

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKOH)

TMDL Group ID: 01772

VAP-F14E\_PMK05B00 Pamunkey River KING WILLIAM CO Tidal freshwater/oligohaline boundary at approximately river mile 23.6

NEW KENT CO downstream to Sweet Hall Landing.

PMKOH

VA Overall AU Category: **5A** 

Use Impairment 1.31 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01772 **1998 2010** VAP-F14E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO

depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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II	J			
Assessment Unit ID	Waterbody Name	City /	County	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Pamu	nkey River (P	MKOH)
TMDL Group ID:	01772			
Open-Water Aquatic	Oxygen, Dissolved	01772 <b>1998</b>	2010	VAP-F14E-01
Life				The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
				The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
				During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
				However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Sour	ces: Agriculture		
		Atmospheric Deposition - Nitroger		
		Industrial Point Source Discharge		
		Internal Nutrient Recycling		

Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKOH)

TMDL Group ID: 01772

VAP-F14E\_PMK06A00 Pamunkey River KING WILLIAM CO Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004,

NEW KENT CO 00/5/2004

РМКОН

VA Overall AU Category: 5A
Use Impairment 3.40 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01772 **1998 2010** VAP-F14E-01

V/11 1 1-1 0 1

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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II	J	(			
Assessment Unit ID	Waterbody Name		City / C	ounty	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Pamunk	key River (PN	MKOH)
TMDL Group ID:	01772				
Open-Water Aquatic Life	Oxygen, Dissolved	01772	1998	2010	VAP-F14E-01
Liie					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Sour	rces: Agriculture	Nitaaaaa		
		Atmospheric Deposition Industrial Point Source D	•		
		Internal Nutrient Recyclin	ng		
		Loss of Riparian Habitat Municipal Point Source [			
		Municipal Folin Source i	Discriaryes		

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

VA Overall AU Category:

TMDL Watershed Name: Pamunkey River (PMKOH)

TMDL Group ID: 01772

VAP-F14E\_PMK06B06 Pamunkey River KING WILLIAM CO VDH-DSS SFC 004A to mesohaline boundary

NEW KENT CO

РМКОН

Use Impairment 0.59 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01772 1998 2010 VAP-F14E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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II	J			
Assessment Unit ID	Waterbody Name	City / C	ounty	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		Pamunl	key River (P	MKOH)
TMDL Group ID:	01772			
Open-Water Aquatic Life	Oxygen, Dissolved	01772 <b>1998</b>	2010	VAP-F14E-01
Lile				The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
				The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
				During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
				However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Source	es: Agriculture Atmospheric Deposition - Nitrogen		
		Industrial Point Source Discharge		
		Internal Nutrient Recycling		
		Loss of Riparian Habitat		

Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

VA Overall AU Category:

TMDL Watershed Name: Pamunkey River (PMKOH)

TMDL Group ID: 01772

VAP-F14E\_ZZZ02A06 Unsegmented estuaries in F14 KING WILLIAM CO Unsegmented portion of the watershed within PMKOH

NEW KENT CO

Use Impairment 2.09 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01772 **2006 2010** VAP-F14E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01772 2006 2010 VAP-F14E-01

Life

Oxygen, Dissolved 01/12 2000 2010 VAI-1142-

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKOH)

TMDL Group ID:

01772

VAP-F14E\_ZZZ02B06 Unsegmented estuaries in F14

KING WILLIAM CO NEW KENT CO Unsegmented portion of the watershed within SFC 004A & PMKOH

VA Overall AU Category: 54

Use

Impairment 0.06 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved

01772 **2006** 

VAP-F14E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life Oxygen, Dissolved

01772

2006

2010

2010

VAP-F14E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID: 01773

VAP-F13E\_PMK01A98 Pamunkey River HANOVER CO Totopotomoy Creek (extent of tide) to Pampatike Landing.

KING WILLIAM CO PMKTF

VA Overall AU Category: 5A
Use Impairment 0.42 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01773 1998 2010 VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully

depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

allocated relative to dissolved oxygen. New discharges cannot result in further DO

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County			Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Pamunke	y River (P	MKTF)
TMDL Group ID:	01773				
Open-Water Aquatic	Oxygen, Dissolved	01773	1998	2010	VAP-F13E-01
Life					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
					The Shallow Water Use was fully supporting the SAV acreage and there was insufficient information to assess the Migratory Spawning Use.
	Source	Agriculture Atmospheric Depositio Industrial Point Source Internal Nutrient Recyc Loss of Riparian Habit Municipal Point Source Sources Outside State	e Discharge cling at e Discharges e Jurisdiction or Bo		ion of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID:

01773

VAP-F13E\_PMK02A98 Pamunkey River HANOVER CO Pampatike Landing downstream to Jacks Creek.

**NEW KENT CO** 

**PMKTF** 

VA Overall AU Category: **5A** 

Use Impairme

Impairment 0.82 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01773 **1998 2010** VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name		City / Co	unty	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Pamunk	ey River (P	MKTF)
TMDL Group ID:	01773				
Open-Water Aquatic Life	Oxygen, Dissolved	01773	1998	2010	VAP-F13E-01
Lile					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Sources	: Agriculture	Nina Mitanaa		
		Atmospheric Deposit Industrial Point Source	J		
		Internal Nutrient Rec	cycling		
		Loss of Riparian Hab Municipal Point Sour			
		Sources Outside Sta	· ·	Borders	

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

VA Overall AU Category:

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID: 01773

VAP-F13E\_PMK03A06 Pamunkey River KING WILLIAM CO Jacks Creek downstream to Macon Creek.

NEW KENT CO

Use Impairment 0.12 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

**PMKTF** 

Aquatic Life **Oxygen, Dissolved** 01773 **1998 2010** VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name		City / Co	unty	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Pamunke	ey River (P	MKTF)
TMDL Group ID:	01773				
Open-Water Aquatic Life	Oxygen, Dissolved	01773	1998	2010	VAP-F13E-01
Life					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Sources	s: Agriculture			
		Atmospheric Deposi Industrial Point Sour	· ·		
		Internal Nutrient Red	J		
		Loss of Riparian Hal			
		Municipal Point Sou Sources Outside Sta	J	Borders	

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin TMDL Watershed Name: Pamunkey River (PMKTF) TMDL Group ID: 01773 VAP-F13E\_ZZZ01A00 **Unsegmented estuaries in F13** HANOVER CO Unsegmented portion of the watershed. **NEW KENT CO PMKTF** VA Overall AU Category: **Impairment** 0.28 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01773 2006 2010 VAP-F13E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic 01773 2006 VAP-F13E-01 Oxygen, Dissolved 2010 Life During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID: 01773

VAP-F14E\_CMC01A06 Cohoke Mill Creek KING WILLIAM CO Tidal limit at Cohoke Millpond to mouth at Pamunkey River

PMKTF

VA Overall AU Category: 5A

Use Impairment 0.03 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01773 **2006 2010** VAP-F13E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01773 2006 2010 VAP-F13E-01

Life

Oxygen, Dissolved 01773 2006 2010 VAP-F13E-0

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID: 01773

VAP-F14E\_PMK02A00 Pamunkey River KING WILLIAM CO Macon Creek to approximately rivermile 34.25 (one mile upstream of station

NEW KENT CO 8-PMK032.00)

PMKTF

VA Overall AU Category: **5A** 

Use Impairment 0.81 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01773 **1998 2010** VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river

subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO

depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	C	City / County	,	Assessment Unit Description
York River Basin					
TMDL Watershed Name:		Pa	amunkey F	River (Pl	MKTF)
TMDL Group ID:	01773				
Open-Water Aquatic Life	Oxygen, Dissolved	01773 <b>19</b> 9	98	2010	VAP-F13E-01
Liie					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Sources:	Agriculture			
		Atmospheric Deposition - Ni	•		
		Industrial Point Source Disci Internal Nutrient Recycling	narge		
		Loss of Riparian Habitat			
		Municipal Point Source Disc	Ü		

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID: 01773

VAP-F14E\_PMK03A00 Pamunkey River KING WILLIAM CO One-mile radius drawn around monitoring station 8-PMK032.00

NEW KENT CO

PMKTF

VA Overall AU Category: **5A** 

Use Impairment 0.41 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01773 **1998 2010** VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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	_	-			
Assessment Unit ID	Waterbody Name		City / Co	ounty	Assessment Unit Description
York River Basin					
TMDL Watershed Name:	Pamunkey River (PMKTF)				
TMDL Group ID:	01773				
Open-Water Aquatic Life	Oxygen, Dissolved	01773	1998	2010	VAP-F13E-01
Lile					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	S	ources: Agriculture			
		Atmospheric Depositi	J		
		Industrial Point Source	ū		
		Internal Nutrient Recy Loss of Riparian Hab	, ,		
		Municipal Point Source			

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

TMDL Group ID: 01773

VAP-F14E\_PMK04A00 Pamunkey River KING WILLIAM CO One mile downstream of 8-PMK032.00 to downstream extent of tidal freshwater segment at approximately river mile 23.6

Segment expanded in 2006 and now incorporates previous segment PMK05A00 PMKTF

VA Overall AU Category: 5A

Use Impairment 2.45 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01773 **1998 2010** VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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	-				
Assessment Unit ID	Waterbody Name		City / Co	ounty	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Pamunk	ey River (P	MKTF)
TMDL Group ID:	01773				
Open-Water Aquatic Life	Oxygen, Dissolved	01773	1998	2010	VAP-F13E-01
Liit					The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.
					The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.
					During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.
					However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.
	Sou	rces: Agriculture			
		Atmospheric Deposit	•		
		Industrial Point Sourd Internal Nutrient Rec	•		
		Loss of Riparian Hab			
		Municipal Point Sour	•		
		Sources Outside Sta	te Jurisdiction or	Borders	

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Pamunkey River (PMKTF)

01773

TMDL Group ID:

VAP-F14E\_ZZZ01A00 Unsegmented estuaries in F14 KING WILLIAM CO Unsegmented portion of the watershed within PMKTF

NEW KENT CO

VA Overall AU Category: **5A** 

Use Impairment 0.70 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01773 2006 2010 VAP-F13E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01773 2006 2010 VAP-F13E-01

Life

Oxygen, Dissolved 01775 2006 2010 VAP-F13E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive march systems.

extensive marsh systems.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Pamunkey River, Unnamed	Tributary
TMDL Group ID:	01111		
VAP-F13R_XDX01A04	UT(XDX) to UT (XDW) to Pamunkey River	KING WILLIAM CO	Headwaters to mouth at XDW
VA Overall AU Category: 5A Use Recreation		roup ID First Listed on 303(d) TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-09
			Not supporting of the Recreation Use goal based on a fecal coliform violation rate of $2/3$ at the Route 604 (8-XDX000.38).
	Sources: Source Unl		
TMDL Watershed Name:		Perrin River, Uppe	er en
TMDL Group ID:	01274		
VAT-F27E_PRN01A00	Perrin River - Upper	GLOUCESTER CO	North shore York River near Cuba Island. From DSS marker "D-Buckle" upstream to headwaters. DSS condemnation # 046-081A, 10/2/2004.
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.12 SQUARE MILES TMDL G	roup ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing		274 <b>1998 2010</b>	VAT-F27E-14
			VDH-DSS condemnation #046-081A, 10/2/2004
	Sources: Source Uni	known	
TMDL Watershed Name:		Po River	
TMDL Group ID:	00858		
VAN-F16R_POR01A02	Po River	SPOTSYLVANIA CO	Segment begins at the confluence with Glady Run and continues downstream until the confluence with an unnamed tributary to the Po River at rivermile 6.69, near the upstream boundary of the Old Trap development.
VA Overall AU Category: <b>5C</b> Use	Impairment 7.38 MILES TMDL Gr	roup ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life		858 <b>2004 2016</b>	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-POR008.97) at the Route 208 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) Aquatic Life Use goal. Three of 27 samples (11.1%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources: Natural Co.	nditions - Water Quality Standards Use Attainal	bility Analyses Needed

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Assessment Unit ID	Waterbody Name	(	City / County	Assessment Unit Description
York River Basin				
TMDL Watershed Name:			Po River	
TMDL Group ID:	00862			
VAN-F16R_POR02A02	Po River	SPC		Segment begins at the confluence with Whitehall Creek and continues downstream until the start of Wright's Pond.
VA Overall AU Category: <b>5A</b> Use	Impairment 2.06 MILES	•	ted on 303(d) TMDL Schedule	
Recreation	Fecal Coliform	00862 <b>20</b>	02 2014	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (8-POR022.56) at the Route 612 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources:	Source Unknown		of the recreation use god for the 2000 water quality assessment.
TMDL Watershed Name:			Polecat Creek	
TMDL Group ID:	00864			
VAN-F20R_PCT01A00	Polecat Creek	C		Segment begins at the confluence with Hackett Creek, approximately 0.5 rivermile upstream from Route 207, and continues downstream until the confluence with the Mattaponi River.
VA Overall AU Category: <b>5A</b> Use	Impairment 6.63 MILES	TMDL Group ID First Lis	ted on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	00864 20	04 2016	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring stations (8-PCT002.29) at the Route 601 bridge and (8-PCT006.34) at the Route 207 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) Aquatic Life Use goal. Three of 9 samples (33.3%) and six of 28 samples (21.4%), respectively, were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources:	Natural Conditions - Water	Quality Standards Use Attainab	oility Analyses Needed
TMDL Group ID:	60105			
VAN-F20R_PCT01A00	Polecat Creek	C		Segment begins at the confluence with Hackett Creek, approximately 0.5 rivermile upstream from Route 207, and continues downstream until the confluence with the Mattaponi River.
VA Overall AU Category: <b>5A</b> Use	Impairment 6.63 MILES	TMDL Group ID First Lis	ted on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	•	06 2018	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality monitoring station (8-PCT002.29) at the Route 601 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources:	Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Poropotank Riv	er & Morris Bay
TMDL Group ID:	01263		
VAT-F26E_PTK01A00	Poropotank River & Morris Bay	GLOUCESTER CO KING AND QUEEN	
VA Overall AU Category: <b>5A</b>			YRKMH.
Use Shellfishing	Impairment 0.83 SQUARE MILES 7  Fecal Coliform	MDL Group ID First Listed on 303(d) TI 01263 1998	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category  2010 VAT-F26E-14
			VDH-DSS Condemnation 048-128A, 11/4/2005
	Sources: Sou	irce Unknown	
TMDL Watershed Name:		Queen'	s Creek
TMDL Group ID:	00328		
VAT-F26E_QEN01A02	Queen's Creek	YORK CO	South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004.
			Size adjusted in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.42 SQUARE MILES 7	TMDL Group ID First Listed on 303(d) Ti	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	00328 <b>2006</b>	<b>2010</b> VAT-F26E-03
			The segment was previously assessed as not supporting the Recreation Use due to fecal coliform violations at station 8-QEN002.47. The TMDL was due in 2010. During the 2006 cycle, the impairment converted to enterococci (3/13), however the original due date was maintained.
	Sources: Sou	ırce Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Queen's Creek	
TMDL Group ID:	01264		
VAT-F26E_QEN01A02	Queen's Creek	YORK CO	South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004.
			Size adjusted in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.42 SQUARE N	IILES TMDL Group ID First Listed on 303(d) TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-16
Chambring	r coar comorni	1000 2010	VDH-DSS Shellfish Condemnation 051-035A, 10/7/2004
	Source	es: Source Unknown	
TMDL Watershed Name:		Reedy Creek	
TMDL Group ID:	00327	Reddy Oreek	
VAN-F21R_RDY01A00	Reedy Creek	CAROLINE CO	Segment begins at the headwaters of Reedy Creek and continues downstream until the start of Reedy Millpond.
VA Overall AU Category: <b>5A</b> Use	Impairment 12.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	00327 <b>1998 2010</b>	Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-RDY003.43) at the Route 648 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Four of six samples (66.7%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Source	es: Natural Conditions - Water Quality Standards Use Attainal	bility Analyses Needed
TMDL Group ID:	00866		
VAN-F21R_RDY01A00	Reedy Creek	CAROLINE CO	Segment begins at the headwaters of Reedy Creek and continues downstream until the start of Reedy Millpond.
VA Overall AU Category: <b>5A</b> Use	Impairment 12.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00866 <b>2004 2016</b>	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (1 of 7 samples - 14.3%) is categorized as not assessed, very little data has been collected from the DEQ's ambient water quality monitoring station (8-RDY003.43) at Route 648 since the previous assessment window. The segment shall remain categorized as impaired.
	Source	es: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Root Swamp	
TMDL Group ID:	60119		
VAN-F22R_ROT01A06	Root Swamp	KING AND QUEEN CO	Segment begins at the headwaters of Root Swamp and continues downstream until the confluence with Beverly Run.
VA Overall AU Category: 5C Use Aquatic Life	Impairment 7.88 MILES <b>pH</b>	TMDL Group ID First Listed on 303(d) TMDL Schedu 60119 <b>2006 2018</b>	Sufficient excursions from the pH water quality criteria were recorded at the DEQ special study monitoring station (8-ROT003.65) at the Route 649 bridge and ambient monitoring station (8-ROT007.85) at the Route 635 bridge to assess this segment as
	0	Natural Conditions - Water Condition Chandrade Use Attain	not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Three of six samples (50.0%) and two of two samples (100%), respectively, were below the lower range (6.0 SU) of the PH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources:	Natural Conditions - Water Quality Standards Use Attain	· ·
TMDL Watershed Name:		Root Swamp, Unnamed	Tributary
TMDL Group ID:	60111		
VAN-F22R_XDY01A06	Unnamed tributary to Root Swamp	KING AND QUEEN CO	Segment begins at the headwaters of an unnamed tributary to Root Swamp and continues downstream until the confluence with Root Swamp.
VA Overall AU Category: 5C Use	Impairment 0.72 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	, , , , , , , , , , , , , , , , , , , ,
Aquatic Life	Oxygen, Dissolved	60111 <b>2006 2018</b>	Sufficient exceedances of the instantaneous dissolved oxygen criterion (2 of 6 samples - 33.3%) were recorded at DEQ's special study monitoring station (8-XDY000.27) at the Route 689 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.
	Sources:	Natural Conditions - Water Quality Standards Use Attain	
TMDL Group ID:	60120		
VAN-F22R_XDY01A06	Unnamed tributary to Root Swamp	KING AND QUEEN CO	Segment begins at the headwaters of an unnamed tributary to Root Swamp and continues downstream until the confluence with Root Swamp.
VA Overall AU Category: 5C Use	Impairment 0.72 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	рН	60120 <b>2006 2018</b>	Sufficient excursions from the pH water quality criteria were recorded at the DEQ special study monitoring station (8-XDY000.27) at the Route 689 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Six of six samples (100%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
	Sources:	Natural Conditions - Water Quality Standards Use Attain	ability Analyses Needed

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Assessment Unit ID	Waterbody Name		City / Count	y	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Sara	h Creek	
TMDL Group ID:	01275				
VAT-F27E_SRH01A00	Sarah Creek - Upper		GLOUCESTER (	co	North shore York River near Gloucester Point. Segment extends from headwaters of branches of Sarah Creek downstream to narrows at Gloucester Banks. DSS condemnation # 046-052, 10/2/2004.
					YRKPH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.56 SQUA	RE MILES TMDL Group ID 01275	First Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category VAT-F27E-15
Ü	s	Sources: Source Unknown			VDH-DSS condemnation #046-052, 10/2/2004
TMDL Watershed Name:			Skimi	no Creek	
TMDL Group ID:	01265				
VAT-F26E_SKM01A00	Skimino Creek		YORK CO		From estuarine/riverine transition to mouth. DSS shellfish condemnation #050-087, 8/25/2000.
					YRKMH
VA Overall AU Category: <b>5A</b> Use		RE MILES TMDL Group ID			
Shellfishing	Fecal Coliform	01265	1998	2010	VAT-F26E-17
	S	Sources: Source Unknown			VDH-DSS Condemnation 050-087, 08/25/2000
TMDL Watershed Name:		Sources. Gourde Officiown	South /	Anna Rive	r
TMDL Group ID:	00242		304117	Allia Mive	•
VAN-F01R_SAR02A02	South Anna River		LOUISA CO ORANGE CO		Segment begins at the headwaters of the South Anna River and continues downstream until the confluence with Dove Fork.
VA Overall AU Category: <b>5A</b> Use	Impairment 7.02 MILES	S TMDL Group ID	First Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00242	2006	2010	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 12 samples - 41.7%) were recorded at DEQ's ambient water quality monitoring station (8-SAR097.82) at the Route 603 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.
	S	Sources: Source Unknown			

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VA Overall AU Category: 5A Use Impairment 8.96 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Recreation Fecal Coliform 00244 2002 2014  Sources: Source Unknown  TMDL Group ID: 00854	From the UT above Horseshoe Bridge Road to the Ashland Municipal STP lischarge.  Impairment Specific Comments and/or Impairment Specific VA Category VAP-F04R-01  The South Anna River from Route 33 to the Ashland Municipal STP was assessed as ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8-SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8-SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
VAP-F04R_SAR03B06 South Anna River HANOVER CO  VA Overall AU Category: 5A Use Impairment 8.96 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Recreation Fecal Coliform 00244 2002 2014  Sources: Source Unknown  TMDL Group ID: 00854	Impairment Specific Comments and/or Impairment Specific VA Category //AP-F04R-01  The South Anna River from Route 33 to the Ashland Municipal STP was assessed as ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8- SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8- SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
VAP-F04R_SAR03B06 South Anna River HANOVER CO  VA Overall AU Category: 5A Use Impairment 8.96 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Recreation Fecal Coliform 00244 2002 2014  Sources: Source Unknown  TMDL Group ID: 00854	Impairment Specific Comments and/or Impairment Specific VA Category //AP-F04R-01  The South Anna River from Route 33 to the Ashland Municipal STP was assessed as ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8- SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8- SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
VA Overall AU Category: 5A Use Impairment 8.96 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Recreation Fecal Coliform 00244 2002 2014  Sources: Source Unknown	Impairment Specific Comments and/or Impairment Specific VA Category //AP-F04R-01  The South Anna River from Route 33 to the Ashland Municipal STP was assessed as ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8- SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8- SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
Use Impairment 8.96 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Recreation Fecal Coliform 00244 2002 2014  Sources: Source Unknown  TMDL Group ID: 00854	/AP-F04R-01  The South Anna River from Route 33 to the Ashland Municipal STP was assessed as ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8-SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8-SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
Sources: Source Unknown  TMDL Group ID: 00854	The South Anna River from Route 33 to the Ashland Municipal STP was assessed as ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8-SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8-SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
Sources: Source Unknown  TMDL Group ID: 00854	ully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.  During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8-SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8-SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
Sources: Source Unknown  TMDL Group ID: 00854	SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation ates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8-SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42.
TMDL Group ID: 00854	Because of the fully supporting status of the upstream portion, the impaired segment has been shortened from the UT above Horseshoe Bridge Road downstream to the Ashland Municipal STP. The TMDL is due in 2014, but is currently in progress.
00004	
	Segment begins at the confluence with Roundabout Creek and continues lownstream until the confluence with Beaver Creek.
VA Overall AU Category: 5A	
Use Impairment 6.27 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 8 samples - 0.0.0%) were recorded at DEQ's ambient water quality monitoring station (8-6AR076.10) at the Route 604 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2004.
Sources: Source Unknown	
	For the 2004 assessment, two of 18 samples (11.1%) exceeded the instantaneous ecal coliform criteria resulting in an assessment of not supporting the recreation use goal. For this assessment period, one of nine samples (11.1%), from station 8-SAR070.96, at Route 646, exceeded the instantaneous fecal coliform criteria. Based on the fecal coliform data, there is insufficient information to determine if the use is
Sources: Source Unknown	supported or not. The segment will remain listed for a fecal coliform bacteria mpairment.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		South A	Anna River
TMDL Group ID:	60098		
VAN-F01R_SAR01A02	South Anna River	LOUISA CO	Segment begins at the confluence with Dove Fork and continues downstream until the mouth of waterbody F01, at the confluence of Wheeler Creek to the South Anna River.
VA Overall AU Category: <b>5A</b> Use	Impairment 7.58 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	60098 <b>2006</b>	2018 Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 19 samples - 57.1%) were recorded at DEQ's ambient water quality monitoring station (8-SAR096.83) at the Route 15 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	: Source Unknown	
TMDL Group ID:	60100		
VAN-F02R_SAR02A00	South Anna River	LOUISA CO	Segment begins at the start of waterbody F02R, where Wheeler Creek intersects the South Anna River, and continues downstream until the confluence with Rock Creek.
VA Overall AU Category: <b>5A</b> Use	Impairment 4.07 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60100 <b>2006</b>	2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 11 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station (8-SAR089.35) at the Route 613 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	: Source Unknown	, ,
Recreation	Fecal Coliform	60100 <b>2006</b>	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 11 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station (8-SAR089.35) at the Route 613 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	: Source Unknown	
VAN-F03R_SAR03A06	South Anna River	LOUISA CO	Segment begins at the confluence with Northeast Creek and continues downstream until the confluence with an unnamed tributary to the South Anna River, approximately rivermile 66.97.
VA Overall AU Category: <b>5A</b> Use	Impairment 1.76 MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	60100 2006	2018 Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 10 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station (8-SAR068.57) at the Route 605 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		South Anna River	
TMDL Group ID:	60108		
VAN-F01R_SAR02A02	South Anna River		Segment begins at the headwaters of the South Anna River and continues downstream until the confluence with Dove Fork.
VA Overall AU Category: <b>5A</b> Use	Impairment 7.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life <b>Benthic</b>	:-Macroinvertebrate Bioassessments (Streams)		DEQ benthic macroinvertebrate biological monitoring finds this segment to be moderately impaired, due to scores from one sampling event in Spring 2003 and one sampling event in Spring 2004.
	Sources	: Source Unknown	
TMDL Watershed Name:		South River	
TMDL Group ID:	00863		
VAN-F19R_STH01A00	South River		Segment begins at the confluence with White Run, approximately 0.6 rivermile upstream from Route 638, and continues downstream until the confluence with Mays Run, at rivermile 1.73.
VA Overall AU Category: <b>5A</b> Use	Impairment 3.25 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00863 2004 2016	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 16 samples - 12.5%) were recorded at DEQ's ambient water quality monitoring station (8-STH004.37) at the Route 638 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	: Source Unknown	
TMDL Watershed Name:		Stagg Creek	
TMDL Group ID:	10000		
VAP-F04R_STG01A06	Stagg Creek	HANOVER CO	Headwaters to mouth at the South Anna River
VA Overall AU Category: 5A Use Recreation	Impairment 6.50 MILES  Escherichia coli	TMDL Group ID First Listed on 303(d) TMDL Schedule 10000 2006 2018	Impairment Specific Comments and/or Impairment Specific VA Category VAP-F04R-03
	Sources		Stagg Creek was assessed as not supporting the Recreation Use due to E. coli violation rates of 2/4 at 8-STG005.46 and 5/12 at 8-STG001.00.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Sullens Creek	
TMDL Group ID:	01108		
VAP-F13R_SLN01A00	Sullens Creek	KING WILLIAM CO	From the pond at Etna Mills downstream to Mehixen Creek.
VA Overall AU Category: 5C Use Aquatic Life	Impairment 2.68 MILES pH	TMDL Group ID First Listed on 303(d) TMDL Scheo 01108 <b>2004 2016</b>	lule Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-06  Not supporting of the Aquatic Life Use goal based on a pH violation rate of 3/11 at the
	0	Notice Conditions Water Coulity Chardends Use Attain	Route 652 bridge (8-SLN001.46).
	Sources.	: Natural Conditions - Water Quality Standards Use Attai Source Unknown	nability Analyses Needed
TMDL Watershed Name:		Ta River	
TMDL Group ID:	00861		
VAN-F18R_TAR01A00	Ta River	SPOTSYLVANIA CO	Segment begins at the confluence with Bluff Run, approximately 0.7 rivermile upstream from Route 738, and continues downstream until the confluence with the Mat River, forming the Matta River.
VA Overall AU Category: <b>5A</b> Use	Impairment 3.27 MILES	TMDL Group ID First Listed on 303(d) TMDL Scheo	lule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00861 <b>2002 2014</b>	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 12 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (8-TAR002.40) at the Route 738 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Sources	Source Unknown	
TMDL Watershed Name:		Taskinas Cree	k
TMDL Group ID:	01266		
VAT-F26E_TSK01A00	Taskinas Creek	JAMES CITY CO	As described in DSS shellfish condemnation #166, 4/27/1989.
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.02 SQUARE MIL Fecal Coliform	ES TMDL Group ID First Listed on 303(d) TMDL Scheo 01266 <b>2004 2010</b>	YRKMH  lule Impairment Specific Comments and/or Impairment Specific VA Category  VAT-F26E-18
	2	Course Halmann	VDH-DSS condemnation 166, 4/27/1989
	Sources	Source Unknown	

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Assessment Unit ID	Waterbody Name		City / Count	у	Assessment Unit Description
York River Basin					
TMDL Watershed Name:		Tas	tine Swamp and	d Little Tas	stine Swamp
TMDL Group ID:	01125				
VAP-F25R_TST01A98	Tastine Swamp, Little Tastine Swamp		KING AND QUEE	N CO	From the headwaters of Little Tastine Swamp to Corbin Pond
VA Overall AU Category: <b>5A</b> Use Aquatic Life	Impairment 6.02 MILES Oxygen, Dissolved	TMDL Group ID 01125	First Listed on 303(d) 2002	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category VAP-F25R-01
					Tastine Swamp from the Route 611 bridge downstream to Corbins Pond was initially assessed in 1998 as fully supporting but threatened of the Recreation and Aquatic Life use goals.
					During the year 2002 cycle the segment was downgraded and extended to incorporate Little Tastine Swamp.
					In the 2004 cycle, the segment continued to be impaired of both goals based on dissolved oxygen and fecal coliform violation rates of 3/20 at 8-TST001.81 (Route 611 bridge).
	Sources: I	Natural Conditions	- Water Quality Standa	ds Use Attainal	There has been no additional monitoring since 2001. bility Analyses Needed
TMDL Group ID:	01126				
VAP-F25R_TST01A98	Tastine Swamp, Little Tastine Swamp		KING AND QUEE	N CO	From the headwaters of Little Tastine Swamp to Corbin Pond
VA Overall AU Category: <b>5A</b> Use Recreation	Impairment 6.02 MILES Fecal Coliform	TMDL Group ID 01126	First Listed on 303(d) <b>2002</b>	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category VAP-F25R-01
					Tastine Swamp from the Route 611 bridge downstream to Corbins Pond was initially assessed in 1998 as fully supporting but threatened of the Recreation and Aquatic Life use goals.
					During the year 2002 cycle the segment was downgraded and extended to incorporate Little Tastine Swamp.
					In the 2004 cycle, the segment continued to be impaired of both goals based on dissolved oxygen and fecal coliform violation rates of 3/20 at 8-TST001.81 (Route 611 bridge).
	Sources: S	Source Unknown			There has been no additional monitoring since 2001.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Terrys Run	
TMDL Group ID:	00219		·
VAN-F07R_TRY01A00	Terrys Run	ORANGE CO	Segment begins at the confluence with Riga Run and continues downstream until the confluence with Lake Anna.
VA Overall AU Category: 5D Use	Impairment 1.83 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00219 <b>2006 2005</b>	A bacteria TMDL for the Terrys Run watershed was submitted to the U.S. EPA and approved November 4, 2005. The sources of bacteria requiring reductions are pet, livestock and wildlife waste delivered directly to the stream or via pastureland or forest, human contributions from straight pipes, failing septic systems, and leaking sanitary sewers, and biosolid application.
			Sufficient exceedances of the instantaneous E.coli bacteria criterion (8 of 16 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (8-TRY004.98) at the Route 629 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 1998.
			Segment listed as Category 4A - Federal ID NA.
	Sources	: Grazing in Riparian or Shoreline Zones Impacts from Land Application of Wastes Livestock (Grazing or Feeding Operations) Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Wastes from Pets Waterfowl Wildlife Other than Waterfowl	
TMDL Group ID:	00855		
VAN-F07R_TRY02A02	Terrys Run	ORANGE CO	Segment begins at the confluence with Horsepen Branch and continues downstream until the confluence with Riga Run.
VA Overall AU Category: 5D Use	Impairment 3.62 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00855 <b>2002 2014</b>	While the data appear to show the dissolved oxygen as supporting the aquatic life use, additional special study sampling, which indicates that a dissolved oxygen impairment exists, is ongoing. Currently, additional information is being collected. Until the additional data are assessed, the segment shall continue to be classified as impaired.
	Sources	: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Terrys Run	
TMDL Group ID:	60102		
VAN-F07R_TRY02A02	Terrys Run	ORANGE CO	Segment begins at the confluence with Horsepen Branch and continues downstream until the confluence with Riga Run.
VA Overall AU Category: Use Recreation	Impairment 3.62 MILES  Escherichia coli  Source:	TMDL Group ID First Listed on 303(d) TMDL Sched 60102 2006 2005  s: Grazing in Riparian or Shoreline Zones Impacts from Land Application of Wastes Livestock (Grazing or Feeding Operations) Runoff from Forest/Grassland/Parkland Sewage Discharges in Unsewered Areas Wastes from Pets Waterfowl Wildlife Other than Waterfowl	Impairment Specific Comments and/or Impairment Specific VA Category  A bacteria TMDL for the Terrys Run watershed was submitted to the U.S. EPA and approved November 11, 2005. The sources of bacteria requiring reductions are pet, livestock and wildlife waste delivered directly to the stream or via pastureland or forest, human contributions from straight pipes, failing septic systems, and leaking sanitary sewers, and biosolid application.  Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 2 samples - 100%) were recorded at DEQ's special study monitoring station (8-TRY006.72) at the Route 624 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.  Segment listed as Category 4A - Federal ID NA.
TMDL Watershed Name:		Timberneck Cre	ek
TMDL Group ID:	01276		
VAT-F27E_TMB01A00	Timberneck Creek	GLOUCESTER CO	North shore York River, northeast of Catlett Islands. DSS condemnation 047-003, 11/4/2003.
			Area reduced and size adjusted in 2006 cycle
			YRKPH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.24 SQUARE MI Fecal Coliform	LES TMDL Group ID First Listed on 303(d) TMDL Sched 01276 1998 2010	ule Impairment Specific Comments and/or Impairment Specific VA Category VAT-F27E-15 VDH-DSS condemnation 047-003, 11/4/2003.
	Caurage	s: Source Unknown	VDI 1-0-35 CONGENINATION 047-005, 11/4/2005.
	Source	5. Ourse Uliniowii	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Tomahawk Cre	ek
TMDL Group ID:	30105		
VAN-F07R_THK01A02	Tomahawk Creek	ORANGE CO	Segment begins at the headwaters of Tomahawk Creek and continues downstream until the confluence with Church Run.
VA Overall AU Category: <b>5A</b> Use	Impairment 3.25 MILES	TMDL Group ID First Listed on 303(d) TMDL Scheo	dule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	30105 <b>2004 2016</b>	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (8 THK000.09) at the Route 612 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.
	Source	s: Source Unknown	
TMDL Watershed Name:		Totopotomoy Cr	eek
TMDL Group ID:	00250		
VAP-F13R_TPT01A98	Totopotomoy Creek	HANOVER CO	From Strawhorn Creek to the Pamunkey River.
VA Overall AU Category: 5A Use	Impairment 9.60 MILES	TMDL Group ID First Listed on 303(d) TMDL Scher	
Recreation	Escherichia coli	00250 <b>2006 2014</b>	VAP-F13R-02
			Totopotomoy Creek was initially listed in 2002 as not supporting of the Recreation Use goal based on fecal coliform violations at the Route 606 bridge (8-TPT004.37). The bacteria TMDL is due in 2014. During the 2006 cycle, the impairment switched to E. coli (2/12).
	Source	s: Source Unknown	
TMDL Group ID:	01110		
VAP-F13R_TPT01A98	Totopotomoy Creek	HANOVER CO	From Strawhorn Creek to the Pamunkey River.
VA Overall AU Category: 5A Use Aquatic Life	Impairment 9.60 MILES pH	TMDL Group ID First Listed on 303(d) TMDL Scher 01110 <b>2004 2016</b>	dule Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-02
	r	2010	In the 2004 cycle, the segment was also assessed as not supporting the Aquatic Life use due to pH violations at 8-TPT004.37. The pH TMDL is due in 2016. During the 2006 cycle, the violation rate was 4/38.
	Source	s: Source Unknown	

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: Walkerton Branch

TMDL Group ID: 01122

VAP-F23R\_WKN01A00 Walkerton Branch KING AND QUEEN CO Watershed above Walkerton Millpond.

VA Overall AU Category: **5C** 

Use Impairment 3.95 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life pH 01122 2004 2016 VAP-F23R-03 (01122)

Walkerton Branch was initially assessed as not supporting of the Aquatic Life Use goal in 2004 based on a pH violations at Route 636 (8-WKN003.16). During the 2006 cycle, the segment remained impaired for pH (10/11). The pH TMDL is due in 2016. The source is believed to be natural conditions.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: 10001

VAP-F23R\_WKN01A00 Walkerton Branch KING AND QUEEN CO Watershed above Walkerton Millpond.

VA Overall AU Category: 5C

Use Impairment 3.95 MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 10001 **2006 2018** VAP-F23R-03

Walkerton Branch was initially assessed as not supporting of the Aquatic Life Use goal in 2004 based on a pH violations at Route 636 (8-WKN003.16). During the 2006 cycle, the segment remained impaired for pH (10/11), and was also listed for dissolved oxygen (8/11). The pH TMDL is due in 2016 and the DO TMDL is due in 2018.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name		City / County	у	Assessment Unit Description
York River Basin					
TMDL Watershed Name:			Waller Mill R	eservoir [	[PWS]
TMDL Group ID:	70000				
VAT-F26L_QEN01A06	Waller Mill Reservoir [PWS]		YORK CO		Headwater impounded portion of Queen Cr. North of Williamsburg in York County.
VA Overall AU Category: <b>5A</b> Use	Impairment 315.00 ACRES	-	st Listed on 303(d)		
Aquatic Life	Oxygen, Dissolved	70000	2006	2018	VAT-F26L-01
					Water quality monitoring was performed at four stations on Waller Mill Reservoir. Dissolved oxygen violations in bottom waters were observed at all four stations. The downstream stations all showed evidence of stratification and the TSIs were <60, indicating mesotrophic conditions. Therefore it is believed that the DO violations are caused by natural stratification and not indicative of nutrient overenrichment.
					However, station 8-QEN008.58 did not meet the current assessment guidance definition of stratification (>4°C differential during June through September), although the station was stratified in April. Because the station was not stratified during the summer months, the station, and therefore the entire lake must be classified a Category 5A water.
	Sources:	Changes in Ordinary S	tratification and Botto	om Water Hyp	oxia/Anoxia
		Source Unknown			
TMDL Watershed Name:			Ware	Creek	
TMDL Group ID:	01267				
VAT-F26E_WRE01A00	Ware Creek		JAMES CITY C NEW KENT CO		Tidal portion of creek and tribs as described in DSS shellfish condemnation $\#73,4/27/1989.$
					YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.10 SQUARE MILE	S TMDL Group ID Fir	st Listed on 303(d)	TMDL Schedul	e Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01267	1998	2010	VAT-F26E-19 (SF)
					VDH-DSS condemnation 073, 4/27/1989
	Sources:	Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		Wheeler Cree	k
TMDL Group ID	60099		
VAN-F01R_WLR01A04	Wheeler Creek	LOUISA CO	Segment begins at the confluence with Camp Creek and continues downstream until the confluence with Hudson Creek.
VA Overall AU Category: <b>5A</b> Use	Impairment 0.22 MILES	TMDL Group ID First Listed on 303(d) TMDL Sche	edule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	60099 2006 2018	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (8-WLR000.26) at the Route 640 bridge to assess this stream segment as not supporting
	Sources: S	Source Unknown	of the recreation use goal for the 2006 water quality assessment.
TMDL Watershed Name:		York River	
TMDL Group ID	01268		
VAT-F26E_PHB01A00	Philbates Creek	NEW KENT CO	From dam to confluence with York River. DSS shellfish condemnation #049-004A.
			YRKMH
VA Overall AU Category: <b>5A</b> Use Shellfishing	Impairment 0.01 SQUARE MILES Fecal Coliform	TMDL Group ID First Listed on 303(d) TMDL Sche 01268 <b>2004 2010</b>	edule Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-20
Ç			Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/004
	Sources: S	Source Unknown	
VAT-F26E_YRK01A04	York River	KING AND QUEEN CO NEW KENT CO	Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Sche	edule Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	Fecal Coliform	01268 <b>2002 2014</b>	VAT-F26E-20
	Sources: S	Source Unknown	Portion of VDH-DSS Shellfish Condemnation of 049-004A, 11/5/2004

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River	
TMDL Group ID:	01268		
VAT-F26E_ZZZ02A06	Unsegmented estuaries in F26E	KING AND QUEEN CO NEW KENT CO	Non segmented areas within VDH-DSS condemnation 049-004A, 11/5/2004 YRKMH
VA Overall AU Category: 5A Use Shellfishing		oup ID First Listed on 303(d) TMDL Schedu 268 2002 2014	
TMDL Group ID:	01482		
VAT-F26E_YRK01A04	York River	KING AND QUEEN CO NEW KENT CO	Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006
VA Overall AU Category: <b>5A</b> Use Aquatic Life		oup ID First Listed on 303(d) TMDL Schedu 482 <b>2004 2016</b>	VRKMH  Ille Impairment Specific Comments and/or Impairment Specific VA Category  VAT-F26E-01  CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic  Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI  probabilistic station surveys (VERSAR 2002). The segments remained impaired  during the 2006 cycle. The TMDL is due in 2016.
	Sources: Source Unit	nown	
VAT-F26E_YRK02A02	York River (Middle)	JAMES CITY CO NEW KENT CO	Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank Bay
VA Overall AU Category: 5A Use Aquatic Life		oup ID First Listed on 303(d) TMDL Schedu 182 <b>2004 2016</b>	YRKMH  Impairment Specific Comments and/or Impairment Specific VA Category  VAT-F26E-01  CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic  Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI  probabilistic station surveys (VERSAR 2002). The segments remained impaired  during the 2006 cycle. The TMDL is due in 2016.
	Sources: Source Uni	snown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River	
TMDL Group ID:	01482		
VAT-F26E_YRK02B06	York River (Middle)	GLOUCESTER CO KING AND QUEEN CO	Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8) . No DSS condemnation.
			YRKMH
VA Overall AU Category: 5A Use Aquatic Life	Impairment 9.47 SQUARE MILES Estuarine Bioassessments	TMDL Group ID First Listed on 303(d) TMDL Schedi 01482 <b>2004 2016</b>	ule Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-01
Aqualio Lile	Estuarine bioassessments	01402 2004 2010	CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segments remained impaired during the 2006 cycle.
	Sources: So	purce Unknown	
VAT-F26E_YRK03A00	York River (Lower)	GLOUCESTER CO YORK CO	Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary
			Segment extent and size altered in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 13.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedo	ule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	01482 <b>2004 2016</b>	VAT-F26E-01
			CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segments remained impaired during the 2006 cycle.
	Sources: So	ource Unknown	

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Assessment Unit ID	Waterbody Name	City / County	•	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		York	River	
TMDL Group ID:	01487			
VAT-F27E_YRK01A00	York River (Lower Middle)	GLOUCESTER C YORK CO	0	The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas.
				YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 8.30 SQUARE MILES TM	1DL Group ID First Listed on 303(d)	ΓMDL Schedul	e Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	01487 <b>2004</b>	2016	VAT-F26E-01
				CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired durin the 2006 cycle.
	Sources: Source	ce Unknown		
VAT-F27E_YRK01B00	York R (DSS Condemnation - Cheatham An	nnex) YORK CO		Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.
				Size adjusted in 2006.
				YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.26 SQUARE MILES TM	MDL Group ID First Listed on 303(d)	FMDL Schedul	e Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	01487 <b>2004</b>	2016	VAT-F26E-01
				CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired durin the 2006 cycle.
	Sources: Source	ce Unknown		

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Assessment Unit ID	Waterbody Name	City / County	/	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		York	River	
TMDL Group ID:	01487			
VAT-F27E_YRK01C00	York R (DSS Condemnation - Naval Weapo Sta.)	ons YORK CO	(	Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS condemnation 051-040, 9/18/2001 - administratively closed due to National Security.
			!	Size adjusted in 2006 cycle
			,	YRKPH
VA Overall AU Category: <b>5A</b> Use Aquatic Life	Impairment 0.23 SQUARE MILES TO Estuarine Bioassessments	MDL Group ID First Listed on 303(d) - 01487 <b>2004</b>		Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-04
				CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.
	Sources: Sour	rce Unknown		
VAT-F27E_YRK01D06	York River	GLOUCESTER C	o ,	Yorktown Beach
		YORK CO	,	YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.02 SQUARE MILES TN	MDL Group ID First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	01487 <b>2004</b>	2016	VAT-F26E-01
				CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

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Assessment Unit ID	Waterbody Name	City / County	,	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		York	River	
TMDL Group ID:	01487			
VAT-F27E_YRK01E06	York River	GLOUCESTER CO YORK CO		Gloucester Point Beach
VA Overall AU Category: <b>5A</b> Use Aquatic Life		Group ID First Listed on 303(d) T 2004	MDL Schedule	
			1	CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.
	Sources: Source U	Inknown		
VAT-F27E_YRK02A00	York River - Lower	GLOUCESTER CO YORK CO	(	Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.
			•	YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 11.56 SQUARE MILES TMDL (	Group ID First Listed on 303(d) T	MDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments 0	1487 <b>2004</b>	2016	VAT-F26E-01
			1	CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.
	Sources: Source U	Inknown		
VAT-F27E_YRK02B00	York R (Lower - administrative closures DSS 6B&C)	YORK CO	I	Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.
			•	YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.51 SQUARE MILES TMDL (	Group ID First Listed on 303(d) T	MDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life				VAT-F26E-01
				CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.
	Sources: Source U	Inknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River	
TMDL Group ID:	01487		
VAT-F27E_YRK02C00	York River - AMOCO	YORK CO	Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley Cr. & AMOCO.
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 2.75 SQUARE MILES 7	TMDL Group ID First Listed on 303(d) TMDL Sche	edule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Estuarine Bioassessments	01487 <b>2004 2016</b>	VAT-F26E-01
			CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.
	Sources: Sou	urce Unknown	
TMDL Group ID:	70002		
VAT-F26E_YRK01A04	York River	KING AND QUEEN CO NEW KENT CO	Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Sche	edule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	70002 <b>2006 2018</b>	VAT-F26E-05
			This segment of the York River was assessed as not supporting the Recreation Use due to an enterococci violation rate of 7/28 at station 8-YRK031.39. The TMDL is due in 2018.
	Sources: Sou	urce Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River ar	nd Tributaries
TMDL Group ID:	70001		
VAT-F26E_QEN01A02	Queen's Creek	YORK CO	South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004.
			Size adjusted in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use		TMDL Group ID First Listed on 303(d) TI	, , , , , , , , , , , , , , , , , , , ,
Fish Consumption	PCB in Fish Tissue	70001 <b>2006</b>	<b>2018</b> VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. The TMDL is due in 2018.
	Sources: So	urce Unknown	
VAT-F26E_YRK01A04	York River	KING AND QUEEN ON NEW KENT CO	CO Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 5.48 SQUARE MILES	TMDL Group ID First Listed on 303(d) TI	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006</b>	<b>2018</b> VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. The TMDL is due in 2018.
	Sources: So	urce Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River and Tribu	taries
TMDL Group ID:	70001		
VAT-F26E_YRK02A02	York River (Middle)	JAMES CITY CO NEW KENT CO	Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank Bay
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 4.81 SQUARE MILES TMD	L Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006 2018</b>	VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. The TMDL is due in 2018.
	Sources: Source	Unknown	
VAT-F26E_YRK02B06	York River (Middle)	GLOUCESTER CO KING AND QUEEN CO	Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8) . No DSS condemnation.
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 9.47 SQUARE MILES TMD	L Group ID First Listed on 303(d) TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006 2018</b>	VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: Source	Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River and Tribu	utaries
TMDL Group ID:	70001		
VAT-F26E_YRK03A00	York River (Lower)	GLOUCESTER CO YORK CO	Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary
			Segment extent and size altered in 2006
			YRKMH
VA Overall AU Category: <b>5A</b> Use	Impairment 13.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	ule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006 2018</b>	VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adult eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: So	ource Unknown	
VAT-F27E_KNG01A02	King Creek - Upper	YORK CO	South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.19 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006 2018</b>	VAT-F26E-04
			Kings Creek is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adult eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs
			There were exceedances of PCB tissue threshold levels in croaker and gizzard shad at station 8-KNG001.36 in 2003.
	Sources: So	ource Unknown	at station o (1110001.00 III 2000.

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Assessment Unit ID	Waterbody Name City / County		Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River a	nd Tributaries
TMDL Group ID:	70001		
VAT-F27E_KNG02A02	King Creek - Lower	YORK CO	South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.14 SQUARE MILES T	MDL Group ID First Listed on 303(d) T	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue		<b>2014</b> VAT-F27E-06/VAT-F26E-04
			There were sufficient exceedances of criterion-based fish tissue value for PCBs in 4 species of fish sampled in 2000 at monitoring station (8-KNG000.18) to assess this segment as not supporting of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report. The TMDL is due in 2014. In addition, during the 2006 cycle, Kings Creek was included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: Sou	rce Unknown	
VAT-F27E_WOR01A00	Wormley Creek (Upper)	YORK CO	South shore York River near Amoco facility southeast of Gloucester Point. Upstream portion of DSS (ADMINISTRATIVE) condemnation #052-006A.
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.17 SQUARE MILES T	MDL Group ID First Listed on 303(d) T	MDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue		2018 VAT-F26E-04
			Tidal Wormleys Creek is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: Sou	rce Unknown	

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Assessment Unit ID	Waterbody Name City / County		Assessment Unit Description	
York River Basin				
TMDL Watershed Name:		York River and Tribut	taries	
TMDL Group ID:	70001			
VAT-F27E_WOR02A02	Wormley Creek (Lower)	YORK CO	South shore York River near Amoco facility southeast of Gloucester Point. One half mile around CORE fish tissue station @ 8-WOR000.35. Downstream portion of DSS condemnation no. 052-006A, 3/7/2002	
			YRKPH	
VA Overall AU Category: <b>5A</b> Use	Impairment 0.16 SQUARE MILES TMI	DL Group ID First Listed on 303(d) TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category	
Fish Consumption	PCB in Fish Tissue	70001 <b>2004 2014</b>	VAT-F27E-07/VAT-F26E-04	
			Data collected for PCBs in fish tissue @ 8-WOR000.35 indicated sufficient exceedance of the criterion based tissue values is used to evaluate this segment as not supporting of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report.	
			During the 2006 cycle, tidal Wormleys Creek was included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.	
	Sources: Source	e Unknown		
VAT-F27E_YRK01A00	York River (Lower Middle)	GLOUCESTER CO YORK CO	The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas.	
			YRKPH	
VA Overall AU Category: <b>5A</b> Use	Impairment 8.30 SQUARE MILES TMI	DL Group ID First Listed on 303(d) TMDL Schedu	le Impairment Specific Comments and/or Impairment Specific VA Category	
Fish Consumption	PCB in Fish Tissue	70001 <b>2006 2018</b>	VAT-F26E-04	
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.	
	Sources: Source	e Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
York River Basin			
TMDL Watershed Name:		York River and Trik	outaries
TMDL Group ID:	70001		
VAT-F27E_YRK01B00	York R (DSS Condemnation - Cheatham Annex)	YORK CO	Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.
			Size adjusted in 2006.
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.26 SQUARE MILES TMDL Group ID	First Listed on 303(d) TMDL Sche	edule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue 70001	2006 2018	VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: Source Unknown		
VAT-F27E_YRK01C00	York R (DSS Condemnation - Naval Weapons Sta.)	YORK CO	Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS condemnation 051-040, 9/18/2001 - administratively closed due to National Security.
			Size adjusted in 2006 cycle
			YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.23 SQUARE MILES TMDL Group ID	First Listed on 303(d) TMDL Sche	edule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue 70001	2006 2018	VAT-F26E-04
			The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: Source Unknown		

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Assessment Unit ID	Waterbody Name	City / Coun	ty	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		York River	and Tribu	taries
TMDL Group ID:	70001			
VAT-F27E_YRK01D06	York River	GLOUCESTER YORK CO	CO	Yorktown Beach
		TORK CO		YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d)	TMDL Schedu	lle Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006</b>	2018	VAT-F26E-04 (PCBs)
				The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: S	Source Unknown		
VAT-F27E_YRK01E06	York River	GLOUCESTER YORK CO	СО	Gloucester Point Beach
VA Overall AU Category: <b>5A</b> Use	Impairment 0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d)	TMDI Schedu	YRKPH  Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006</b>	2018	VAT-F26E-04 (PCBs)
				The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: S	Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	1	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		York River a	nd Tribut	aries
TMDL Group ID:	70001			
VAT-F27E_YRK02A00	York River - Lower	GLOUCESTER C YORK CO	0	Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.
				YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 11.56 SQUARE MILES TN	MDL Group ID First Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006</b>	2018	VAT-F26E-04 (PCBs)
				The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adult eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.
	Sources: Sour	rce Unknown		
VAT-F27E_YRK02B00	York R (Lower - administrative closures DS 6B&C)	SS YORK CO		Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.
				YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.51 SQUARE MILES TN	MDL Group ID First Listed on 303(d)	TMDL Schedule	e Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	70001 <b>2006</b>	2018	VAT-F26E-04
				The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adult eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs
	Sources: Sour	ce Unknown		

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**Assessment Assessment Unit Description Unit ID Waterbody Name** City / County York River Basin York River and Tributaries TMDL Watershed Name: TMDL Group ID: 70001 VAT-F27E\_YRK02C00 York River - AMOCO YORK CO Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley Cr. & AMOCO. **YRKPH** VA Overall AU Category: Impairment 2.75 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Fish Consumption **PCB** in Fish Tissue 70001 2006 2018 VAT-F26E-04 (PCBs) The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. Sources: Source Unknown

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

VA Overall AU Category:

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID: 00330

VAT-F26E\_ABD01A00 Aberdeen Creek GLOUCESTER CO Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters

downstream to the mouth. DSS shellfish direct harvesting condemnation #

047-078 A. YRKMH

Use Impairment 0.13 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

The Shallow-Water Submerged Aquatic Vegetation Use is impaired based on failure

The Shallow-Water Submerged Aquatic Vegetation Use is impaired based on failure

to meet the SAV acreage criteria provided by the CBPO 12/1/2005.

to meet the SAV acreage criteria provided by the CBPO 12/1/2005.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Non-Point Source)

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Non-Point Source)

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_ADM01A00 Adams Creek GLOUCESTER CO Eastern shore of York River near Purtan Island. VDH-DSS shellfish

condemnation # 048-128B, 11/5/2004.

Size adjusted in 2006 cycle, although area did not change

YRKMH

VA Overall AU Category: 54

Use Impairment

0.18 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_BAK01A00 Bakers Creek KING AND QUEEN CO North shore York R SE of West Point Municipal Airport. Estuarine portion of

creek. Portion of DSS condemnation # 049-004A.

YRKMH

VA Overall AU Category: 5A

Use Impairment

airment 0.01 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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Vork	River	Kasın
	ILLVEI	I J WASTELL

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID: 00330

VAT-F26E\_BND01A06 Bland Creek GLOUCESTER CO Tidal limit to mouth

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.05 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 00330 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_CTC01A06 Carter Creek YORK CO Located in York County near Skimino. From mouth to estuarine/riverine

transition. DSS condemnation #050-079.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.03 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

T7 1	D.	n	•
Variz	River	KΛIG	7111
LUIN	MIVEI	Dus	uri

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID: 00330

VAT-F26E\_FOX01A06 Fox Creek rib to York River. Located southeast of Almondsville in

Gloucester Co. DSS condemnation #72, 4/27/1989.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

Vor	k	Ri	ver	R	asin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_HCK01A04 **Hockley Creek**  KING AND QUEEN CO

North shore York R NW of Belleview. Portion of DSS condemnation # 049-

004A.

**YRKMH** 

VAT-F26E-02

VAT-F26E-02

VA Overall AU Category: 5A

Use

**Impairment** 

0.04 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

**Aquatic Plants (Macrophytes)** Aquatic Life

00330

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2006

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_JNS01A00 Jones Creek GLOUCESTER CO NW of Clay Bank, between Rts 618 & 616. From mouth to estuarine/riverine transition as described in DSS shellfish condemnation # 047-115, 11/7/2002.

YRKMH

VA Overall AU Category: 5A

Use Impairmer

Impairment 0.06 sc

0.06 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02,

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_PHB01A00 Philbates Creek NEW KENT CO From dam to confluence with York River. DSS shellfish condemnation #049-

004A.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.01 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_PTK01A00 Poropotank River & Morris Bay

GLOUCESTER CO KING AND QUEEN CO Described in VDH-DSS shellfish condemnation # 128A, 11/5/2004

Segment altered in 2006

YRKMH.

VAT-F26E-02

VA Overall AU Category: **5A** 

Use Impairment

0.83 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin TMDL Watershed Name: York River Mesohaline Embayments TMDL Group ID: 00330 VAT-F26E\_QEN01A02 **Queen's Creek** YORK CO South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004. Size adjusted in 2006 YRKMH VA Overall AU Category: **Impairment** 0.42 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category **Aquatic Plants (Macrophytes)** Aquatic Life 00330 2006 2010 VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Shallow-Water Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02 Submerged Aquatic During the 2006 cycle, the revised Chesapeake Bay water quality standards were Vegetation adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010. Sources: Agriculture Atmospheric Deposition - Nitrogen Clean Sediments Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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L	vin	11 L V C	עו:	usiii

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_SKM01A00 Skimino Creek YORK CO From estuarine/riverine transition to mouth. DSS shellfish condemnation

#050-087, 8/25/2000.

YRKMH

VA Overall AU Category: 5A

Use Impairment

airment 0.07 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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<i>,,</i> .	Nivei	DUNLIL

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_TSK01A00 Taskinas Creek

JAMES CITY CO

As described in DSS shellfish condemnation #166, 4/27/1989.

YRKMH

VA Overall AU Category: 5A

Use

**Impairment** 

0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes)

00330

2006

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_WRE01A00 Ware Creek and tribs as described in DSS shellfish condemnation

NEW KENT CO #73, 4/27/1989.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.10 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02,

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Authospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_YRK01A04 York River KING AND QUEEN CO Start of York River at West Point (RM 32.0) downstream to the boundary of

**NEW KENT CO** DSS condemnation # 049-004A. Segment expanded in 2006

**YRKMH** 

VA Overall AU Category: 5A

> Use **Impairment** 5.48 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

00330 2006 2010 VAT-F26E-02 **Aquatic Plants (Macrophytes)** Aquatic Life

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-02

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F26E\_YRK02A02 York River (Middle)

JAMES CITY CO **NEW KENT CO** 

Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank

**YRKMH** 

VA Overall AU Category:

Use

Impairment

4.81 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010

VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_YRK02B06 York River (Middle)

**GLOUCESTER CO** KING AND QUEEN CO Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8). No DSS condemnation.

**YRKMH** 

VA Overall AU Category:

Impairment Use

9.47 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-02

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2010

VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_YRK03A00 York River (Lower)

GLOUCESTER CO YORK CO Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary.

Segment extent and size altered in 2006

YRKMH

VA Overall AU Category: 5A

Use Impairment

13.20 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330

2006 2010

VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes)

00330

2006

2010

mainstom Vork Bivor was included in EB

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic

vegetation acreage requirements.

VAT-F26E-02

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F26E\_ZZZ01A00 **Unsegmented estuaries in F26E** 

**GLOUCESTER CO** KING AND QUEEN CO Non segmented areas of F26. No DSS condemnation in this portion of York

River.

**YRKMH** 

VA Overall AU Category: 5A

Use

**Impairment** 

0.48 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

00330 2006 **Aquatic Plants (Macrophytes)** Aquatic Life

2010 VAT-F26E-02

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2215 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_ZZZ01B06 Unsegmented estuaries in F26E

JAMES CITY CO NEW KENT CO Non segmented areas of F26 within MSN. No DSS condemnation in this

portion of York River.

YRKMH

VA Overall AU Category: 5A

Use Impairment

mpairment 0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2216 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F26E\_ZZZ02A06 Unsegmented estuaries in F26E

KING AND QUEEN CO NEW KENT CO Non segmented areas within VDH-DSS condemnation 049-004A, 11/5/2004

YRKMH

VAT-F26E-02

VA Overall AU Category: 5A

Use Impai

Impairment

0.09 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330

330 **2006 2010** 

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

2006

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes)

00330

2010

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2217 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_CDB01A00 Cedarbush Creek - Upper GLOUCESTER CO North shore York River, north of Catlett Islands. VDH- DSS condemnation

047-107B, 12/30/2004

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: 5

Use Impairment 0.08 SQUARE MILES TMDL Group

0.08 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2218 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_CDB02A00 Cedarbush Creek - Lower GLOUCESTER CO North shore York River, north of Catlett Islands. Downstream of VDH-DSS

condemnation.

YRKPH

VA Overall AU Category: 5A

Use Impairment 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2219 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_CRT01A00 Carter Creek (Gloucester County) - Upper

portion

GLOUCESTER CO North shore York R located NW of Catlett Islands. Upper portion of creek,

as described in VDH-DSS condemnation 047-107A, 12/30/2004.

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A** 

Use Impairment 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2220 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F27E\_CRT02A00 **Carter Creek - Lower Portion (Gloucester** 

County)

**GLOUCESTER CO** 

North shore York R located NW of Catlett Islands. Downstream of VDH-

DSS condemnation area.

**YRKPH** 

VA Overall AU Category: 5A

Use

**Impairment** 

0.19 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

00330 2006 2010 VAT-F26E-08 **Aquatic Plants (Macrophytes)** Aquatic Life

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2221 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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<i>,,</i> .	Nivei	DUNLIL

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_FEL01A00 Felgate's Creek YORK CO South of Pennimon Spit, within Naval Weapons Station. Segment extends

from headwaters downstream to mouth. Portion of DSS condemnation # 051-035C. In 2006: Merged with FEL02A00, which was deleted.

YRKPH

VAT-F26E-08

VA Overall AU Category:

Use Impairmer

Impairment 0.25 SQUAR

0.25 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2222 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_IFC01A00 Indian Field Creek YORK CO Southeast of Pennimon Spit, within Naval Weapons Station. DSS

condemnation no. 051-130, 11/12/1998.

YRKPH

VA Overall AU Category: 5A

Use Impairment 0.12 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 0

00330 2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2223 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

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York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F27E\_KNG01A02 King Creek - Upper YORK CO South shore of York River. East of Pennimon Spit, within Naval Weapons

Station facility. Headwaters area of creek downstream to RM 0.50. Portion

of VDH-DSS condemnation 051-035C, 10/7/2004

**YRKPH** 

VA Overall AU Category:

Use

Impairment

0.19 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330

2006

2010

VAT-F26E-08

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2224 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_KNG02A02 King Creek - Lower YORK CO South shore of York River. East of Pennimon Spit, within Naval Weapons

Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.

**YRKPH** 

VA Overall AU Category:

Impairment Use

0.14 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-08

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2225 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_PRN01A00 Perrin River - Upper GLOUCESTER CO North shore York River near Cuba Island. From DSS marker "D-Buckle"

upstream to headwaters. DSS condemnation # 046-081A, 10/2/2004.

YRKPH

VA Overall AU Category: 5A

Use Impairment 0.12 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2226 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_PRN02A00 Perrin River - Lower GLOUCESTER CO North shore York River near Cuba Island. As described in DSS seasonal

condemnation # 046-081 M1, 10/2/2004.

YRKPH

VA Overall AU Category: 5A

Use Impairment

ment 0.06 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2227 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_SRH01A00 Sarah Creek - Upper GLOUCESTER CO North shore York River near Gloucester Point. Segment extends from

headwaters of branches of Sarah Creek downstream to narrows at Gloucester Banks. DSS condemnation # 046-052. 10/2/2004.

YRKPH

VA Overall AU Category:

Use Impairme

Impairment 0.56 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2228 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

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TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_SRH02A00 Sarah Creek - Lower GLOUCESTER CO North shore York River near

North shore York River near Gloucester Point. Segment extends from mouth (juncture with York River) upstream to narrows at Gloucester Banks.

DSS seasonal condemnation # 046-052 M1, 10/2/2004.

YRKPH

VAT-F26E-08

VA Overall AU Category: 5

Use Impairment

mpairment 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes)

00330

2006

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2229 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_TMB01A00 Timberneck Creek GLOUCESTER CO North shore York River, northeast of Catlett Islands. DSS condemnation

047-003, 11/4/2003.

Area reduced and size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: 54

Use Impairment 0.24 SQUAF

0.24 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2230 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_WOR01A00 Wormley Creek (Upper) YORK CO South shore York River near Amoco facility southeast of Gloucester Point.

Upstream portion of DSS (ADMINISTRATIVE) condemnation #052-006A.

YRKPH

VA Overall AU Category: 5A

Use Impairment 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2231 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F27E\_WOR02A02 **Wormley Creek (Lower)** YORK CO South shore York River near Amoco facility southeast of Gloucester Point.

> One half mile around CORE fish tissue station @ 8-WOR000.35. Downstream portion of DSS condemnation no. 052-006A, 3/7/2002

**YRKPH** 

VAT-F26E-08

VA Overall AU Category:

Use

Impairment

0.16 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-08

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2232 of 2342

**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** 

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TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_YRK01A00 York River (Lower Middle) **GLOUCESTER CO** YORK CO

The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish

condemnation areas.

**YRKPH** 

VA Overall AU Category:

Impairment Use

8.30 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use: the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2010

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description** City / County **Unit ID Waterbody Name** 

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v.	0 V L	R111/	ov K	asin
L	vin	11 L V C	עו:	usiii

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_YRK01B00 York R (DSS Condemnation - Cheatham Annex) YORK CO

Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.

Size adjusted in 2006.

**YRKPH** 

VA Overall AU Category: 5A

Use

**Impairment** 

0.26 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

00330 Aquatic Life **Aquatic Plants (Macrophytes)** 2006 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2010

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic

vegetation acreage requirements. T

VAT-F26E-08

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_YRK01C00 York R (DSS Condemnation - Naval Weapons

Sta.)

YORK CO

Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS

condemnation 051-040, 9/18/2001 - administratively closed due to National

Security.

Size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: 5

Use Impairment

ment 0.23 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation Aquatic Plants (Macrophytes)

00330

2006

2010

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Final 2006 IR Page 2235 of 2342

Assessment
Unit ID

Waterbody Name

City / County

Assessment Unit Description

York River Basin

TMDL Watershed Name:

TMDL Group ID:

Sources: Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2236 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F27E\_YRK01D06 York River **GLOUCESTER CO** Yorktown Beach YORK CO

**YRKPH** 

VA Overall AU Category:

**Impairment** Use

0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2010

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2237 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

00330

VAT-F27E\_YRK01E06 York River **GLOUCESTER CO** YORK CO

Gloucester Point Beach

**YRKPH** 

VA Overall AU Category:

Use

**Impairment** 

0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2010

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2238 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_YRK02A00 York River - Lower

**GLOUCESTER CO** YORK CO

Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No

DSS shellfish condemnation.

**YRKPH** 

VA Overall AU Category:

Impairment Use

11.56 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use: the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2010

Shallow-Water Submerged Aquatic Vegetation

**Aquatic Plants (Macrophytes)** 

00330

2006

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name		City / County	/	Assessment Unit Description
York River Basin					
TMDL Watershed Name:		York I	River Mesol	naline Em	bayments
TMDL Group ID:	00330				
VAT-F27E_YRK02B00	York R (Lower - administrative closur 6B&C)	es DSS	YORK CO		Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.
					YRKPH
VA Overall AU Category: <b>5A</b> Use		ES TMDL Group ID First Li	isted on 303(d)		Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Aquatic Plants (Macrophytes)	00330 2	2006	2010	VAT-F26E-08
					The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.
	Sources:	Agriculture Atmospheric Deposition - I Clean Sediments Industrial Point Source Dis Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Dis Sediment Resuspension ( Sources Outside State Jur Wet Weather Discharges (	scharge scharges Clean Sediment) risdiction or Borde		of Stormwater, SSO or CSO)
Shallow-Water	Aquatic Plants (Macrophytes)	00330 2	2006	2010	VAT-F26E-08
Submerged Aquatic Vegetation					The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.
	Sources:	Agriculture Atmospheric Deposition - It Clean Sediments Industrial Point Source Dis Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Dis Sediment Resuspension ( Sources Outside State Jur Wet Weather Discharges (	scharge scharges Clean Sediment) risdiction or Borde		of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_YRK02C00 York River - AMOCO YORK CO Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish

condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley

Cr. & AMOCO.

VAT-F26E-08

**YRKPH** 

VA Overall AU Category:

Impairment Use

2.75 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Aquatic Plants (Macrophytes)** 00330 2006 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use: the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation

Aquatic Plants (Macrophytes)

00330

2006

2010

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

00330

VAT-F27E\_ZZZ01A00 Unsegmented estuaries in F27E

GLOUCESTER CO YORK CO Non segmented estuarine areas of F27E - Lower York River. No DSS

condemnations.

YRKPH

VA Overall AU Category: 5A

Use

Impairment

0.46 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Aquatic Plants (Macrophytes) 00330 2006 2010 VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation **Aquatic Plants (Macrophytes)** 

00330

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged

aquatic vegetation acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen

Clean Sediments

Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2242 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

VAP-F14E\_PMK07A04 Pamunkey River KING WILLIAM CO Mesohaline boundary to mouth

NEW KENT CO

YRKMH

VA Overall AU Category: **5A** 

Use Impairmer

Impairment 0.39 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

$Y_{\ell}$	ork	River	Basin	
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TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

Open-Water Aquatic Life Oxygen, Dissolved

01778

1998

2010

VAP-F14E-05

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2245 of 2342

**Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Mesohaline Embayments TMDL Watershed Name: TMDL Group ID: 01778 VAP-F14E\_ZZZ03A06 **Unsegmented estuaries in F14** KING WILLIAM CO Unsegmented portion of the watershed within SFC 004A & YRKMH **NEW KENT CO** VA Overall AU Category: Impairment 0.08 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements. Sources: Agriculture Atmospheric Deposition - Nitrogen

Atmospheric Deposition - Nitroger Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life

**Assessment** 

Oxygen, Dissolved

01778

2006

2010

VAP-F14E-05

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2246 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

01778

TMDL Group ID:

VAT-F26E\_ABD01A00 **Aberdeen Creek GLOUCESTER CO** Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters

downstream to the mouth. DSS shellfish direct harvesting condemnation #

047-078 A.

**YRKMH** 

VA Overall AU Category:

**Impairment** 0.13 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

> The Open-Water Aquatic Life Use is impaired based on failure to meet the 30-day dissolved oxygen criteria for Open Water - Summer (CFD reference conditions using

the 2/26/2006 CFD results supplied by CBPO).

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Non-Point Source)

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

The Open-Water Aquatic Life Use is impaired based on failure to meet the 30-day dissolved oxygen criteria for Open Water - Summer (CFD reference conditions using

the 2/26/2006 CFD results supplied by CBPO).

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Non-Point Source)

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2247 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID: 01778

VAT-F26E\_ADM01A00 Adams Creek GLOUCESTER CO Eastern shore of York River near Purtan Island. VDH-DSS shellfish

condemnation # 048-128B, 11/5/2004.

Size adjusted in 2006 cycle, although area did not change

YRKMH

VA Overall AU Category: **5A** 

Use Impairment 0.18 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2248 of 2342

Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID: 01778

VAT-F26E\_BAK01A00 Bakers Creek KING AND QUEEN CO North shore York R SE of West Point Municipal Airport. Estuarine portion of

creek. Portion of DSS condemnation # 049-004A.

YRKMH

VA Overall AU Category: **5A** 

Use Impairment 0.01 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed both the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2249 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

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nrlz	River	Kacı	111
1 (// N	Nivei	DUN	

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_BND01A06 **Bland Creek GLOUCESTER CO** Tidal limit to mouth

**YRKMH** 

VA Overall AU Category:

Use

**Impairment** 

0.05 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

T7 1	$\mathbf{n}$ .	n	•
Vork	River	KΛ	CIN
LVIN	111161	Dи	<i>Suit</i>

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

VAT-F26E\_CTC01A06 Carter Creek YORK CO Located in York County near Skimino. From mouth to estuarine/riverine

transition. DSS condemnation #050-079.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.03 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life .

Oxygen, Dissolved

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_FOX01A06 **Fox Creek GLOUCESTER CO** Fox Creek trib to York River. Located southeast of Almondsville in

Gloucester Co. DSS condemnation #72, 4/27/1989.

YRKMH

VA Overall AU Category: 5A

> Use **Impairment** 0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

2006 2010 VAT-F26E-02 Oxygen, Dissolved 01778 Aquatic Life

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID: 01778

VAT-F26E\_HCK01A04 Hockley Creek KING AND QUEEN CO North shore York R NW of Belleview. Portion of DSS condemnation # 049-

004A.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.04 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

01778

TMDL Group ID:

VAT-F26E\_JNS01A00 Jones Creek GLOUCESTER CO NW of Clay Bank, between Rts 618 & 616. From mouth to estuarine/riverine

transition as described in DSS shellfish condemnation # 047-115, 11/7/2002.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.06 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

VAT-F26E\_PHB01A00 Philbates Creek NEW KENT CO From dam to confluence with York River. DSS shellfish condemnation #049-

004A. YRKMH

VA Overall AU Category: **5A** 

Use Impairment 0.01 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_PTK01A00 Poropotank River & Morris Bay

**GLOUCESTER CO** KING AND QUEEN CO Described in VDH-DSS shellfish condemnation # 128A, 11/5/2004

Segment altered in 2006

YRKMH.

VA Overall AU Category: 5A

Use **Impairment** 

0.83 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

2006 2010 VAT-F26E-02 Oxygen, Dissolved 01778 Aquatic Life

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin TMDL Watershed Name: York River Mesohaline Embayments TMDL Group ID: 01778 VAT-F26E\_QEN01A02 **Queen's Creek** YORK CO South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004. Size adjusted in 2006 YRKMH VA Overall AU Category: **Impairment** 0.42 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01778 2002 2010 VAT-F26E-02 During the 2002 cycle, sufficient exceedances of Virginia's water quality standard for dissolved oxygen were recorded at DEQ's ambient water quality monitoring stations on Queen Cr. to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Goal. During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. The TMDL is due in 2010. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic Oxygen, Dissolved 01778 2002 2010 VAT-F26E-02 Life During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

T7 1	<b>D</b> •	n	•
Vork	River	KΛ	CIN
LVIN	111161	Dи	<i>Suit</i>

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

VAT-F26E\_SKM01A00 Skimino Creek YORK CO From estuarine/riverine transition to mouth. DSS shellfish condemnation

#050-087, 8/25/2000.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.07 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_TSK01A00 **Taskinas Creek** JAMES CITY CO As described in DSS shellfish condemnation #166, 4/27/1989.

**YRKMH** 

VA Overall AU Category:

Use

**Impairment** 

0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

VAT-F26E\_WRE01A00 Ware Creek and tribs as described in DSS shellfish condemnation

NEW KENT CO #73, 4/27/1989.

YRKMH

VA Overall AU Category: 5A

Use Impairment 0.10 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01778 **2006 2010** VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_YRK01A04 York River

KING AND QUEEN CO **NEW KENT CO** 

Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006

**YRKMH** 

VA Overall AU Category: 5A

Aquatic Life

Use

**Impairment** 

Oxygen, Dissolved

5.48 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

01778

2006

Impairment Specific Comments and/or Impairment Specific VA Category

2010 VAT-F26E-02

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. The TMDL is due in 2010

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic

Life

Oxygen, Dissolved

01778

2006

2010

VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. The TMDL is due in 2010

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Non-Point Source)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Mesohaline Embayments TMDL Watershed Name: TMDL Group ID: 01778 VAT-F26E\_YRK02A02 York River (Middle) JAMES CITY CO Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 **NEW KENT CO** and extends downstream to the MSN boundary near Mt. Folly/Poropotank **YRKMH** VA Overall AU Category: **Impairment** 4.81 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02 Life The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge

Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Sources Outside State Jurisdiction or Borders

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Mesohaline Embayments

TMDL Group ID:

01778

VAT-F26E\_YRK02B06 York River (Middle)

**GLOUCESTER CO** KING AND QUEEN CO Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8). No DSS condemnation.

**YRKMH** 

VA Overall AU Category:

**Impairment** Use

9.47 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life

Oxygen, Dissolved

01778

2006

2010

VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Mesohaline Embayments TMDL Watershed Name: TMDL Group ID: 01778 VAT-F26E\_YRK03A00 York River (Lower) **GLOUCESTER CO** Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic YORK CO (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary. Segment extent and size altered in 2006 **YRKMH** VA Overall AU Category: 5A **Impairment** Use 13.20 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category 01778 Aquatic Life Oxygen, Dissolved 2006 2010 VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02 Life The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_ZZZ01A00 **Unsegmented estuaries in F26E** 

**GLOUCESTER CO** KING AND QUEEN CO Non segmented areas of F26. No DSS condemnation in this portion of York

River.

**YRKMH** 

VA Overall AU Category: 5A

Use

**Impairment** 

0.48 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

2006 2010 VAT-F26E-02 Oxygen, Dissolved 01778 Aquatic Life

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

Oxygen, Dissolved

VAT-F26E\_ZZZ01B06 **Unsegmented estuaries in F26E**  JAMES CITY CO **NEW KENT CO** 

Non segmented areas of F26 within MSN. No DSS condemnation in this

portion of York River.

YRKMH

VA Overall AU Category: 5A

Aquatic Life

Use

**Impairment** 

0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

01778

2006

2010

Impairment Specific Comments and/or Impairment Specific VA Category VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

2006

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2010

Open-Water Aquatic

Life

Oxygen, Dissolved

01778

VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Final 2006 IR Page 2266 of 2342

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Mesohaline Embayments TMDL Watershed Name:

TMDL Group ID:

01778

VAT-F26E\_ZZZ02A06 **Unsegmented estuaries in F26E**  KING AND QUEEN CO **NEW KENT CO** 

Non segmented areas within VDH-DSS condemnation 049-004A, 11/5/2004

**YRKMH** 

VA Overall AU Category:

Use

**Impairment** 

0.09 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01778 2006 2010 VAT-F26E-02

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved VAT-F26E-02

Life

01778 2006 2010

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_CDB01A00 Cedarbush Creek - Upper

GLOUCESTER CO North shore York River, north of Catlett Islands. VDH- DSS condemnation

047-107B, 12/30/2004

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: 5/

Use Impairment 0.08 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01779 **2006 2010** VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

Tigation Tagasta China C

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

5A

01779

VAT-F27E\_CDB02A00 Cedarbush Creek - Lower **GLOUCESTER CO** North shore York River, north of Catlett Islands. Downstream of VDH-DSS

condemnation.

YRKPH

VA Overall AU Category: Use **Impairment** 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

2006 2010 VAT-F26E-08 Oxygen, Dissolved 01779 Aquatic Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Polyhaline Embayments TMDL Watershed Name: TMDL Group ID: 01779 Carter Creek (Gloucester County) - Upper VAT-F27E\_CRT01A00 **GLOUCESTER CO** North shore York R located NW of Catlett Islands. Upper portion of creek, portion as described in VDH-DSS condemnation 047-107A, 12/30/2004. Segment expanded in 2006 cycle. **YRKPH** VA Overall AU Category: **Impairment** Use 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category 01779 Aquatic Life Oxygen, Dissolved 2006 2010 VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08 Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_CRT02A00 Carter Creek - Lower Portion (Gloucester GLOUCESTER CO North shore York R located NW of Catlett Islands. Downstream of VDH-

County)

YRKPH

VA Overall AU Category: **5A** 

Use Impairment 0.19 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01779 **2006 2010** VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

DSS condemnation area.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_FEL01A00 **Felgate's Creek** YORK CO South of Pennimon Spit, within Naval Weapons Station. Segment extends

from headwaters downstream to mouth. Portion of DSS condemnation #

051-035C. In 2006: Merged with FEL02A00, which was deleted.

**YRKPH** 

VA Overall AU Category:

Use

Impairment

0.25 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2010 Open-Water Aquatic Oxygen, Dissolved

Life

2006 01779

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

T7 1	<b>D</b> •	<b>D</b> •
Vork	RINDY	Basin
<i>,,</i> .	Nivei	DUNLIL

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_IFC01A00 **Indian Field Creek** 

YORK CO

Southeast of Pennimon Spit, within Naval Weapons Station. DSS

condemnation no. 051-130, 11/12/1998.

YRKPH

VA Overall AU Category: 5A

Use **Impairment** 

0.12 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

2006 2010 VAT-F26E-08 Oxygen, Dissolved 01779 Aquatic Life

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Polyhaline Embayments TMDL Watershed Name: TMDL Group ID: 01779 VAT-F27E\_KNG01A02 King Creek - Upper YORK CO South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004 **YRKPH** VA Overall AU Category: **Impairment** 0.19 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01779 2004 2010 VAT-F26E-08 (and 2004 fact sheet VAT-F27E-05) Sufficient exceedances of Virginia's water quality standards for Dissolved Oxygen were recorded at DEQ's ambient water quality monitoring station on King Cr. to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goals for the 2002 305(b) report. The cause of the standard exceedances was considered unknown. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Common Ontoide Chate Installation on Bo

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life Oxygen, Dissolved

01779

2004

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / Count	у	Assessment Unit Description
York River Basin				
TMDL Watershed Name:		York River Polyl	naline En	nbayments
TMDL Group ID	01779			
VAT-F27E_KNG02A02	King Creek - Lower	YORK CO		South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.
				YRKPH
VA Overall AU Category: <b>5A</b> Use	Impairment 0.14 SQUARE MIL	ES TMDL Group ID First Listed on 303(d)	TMDL Sched	dule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01779 <b>2006</b>	2010	VAT-F26E-08
				During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.
	Sources	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Bord Wet Weather Discharges (Point Source an		on of Stormwater, SSO or CSO)
Open-Water Aquatic	Oxygen, Dissolved	01779 <b>2006</b>	2010	VAT-F26E-08
Life				During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.
	Sources	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Bord	ers	

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

T7 1	<b>D</b> •	<b>D</b> •
Vork	RINDY	Basin
<i>,,</i> .	Nivei	DUNLIL

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_PRN01A00 Perrin River - Upper **GLOUCESTER CO** North shore York River near Cuba Island. From DSS marker "D-Buckle"

upstream to headwaters. DSS condemnation # 046-081A, 10/2/2004.

**YRKPH** 

VA Overall AU Category: 5A

Use **Impairment** 0.12 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

2006 2010 VAT-F26E-08 Oxygen, Dissolved 01779 Aquatic Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_PRN02A00 Perrin River - Lower GLOUCESTER CO North shore York River near Cuba Island. As described in DSS seasonal

condemnation # 046-081 M1, 10/2/2004.

YRKPH

VA Overall AU Category: **5A** 

Use Impairment 0.06 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01779 **2006 2010** VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

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1 (// N	Nivei	DUN	

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_SRH01A00 Sarah Creek - Upper **GLOUCESTER CO** North shore York River near Gloucester Point. Segment extends from

> headwaters of branches of Sarah Creek downstream to narrows at Gloucester Banks. DSS condemnation # 046-052, 10/2/2004.

**YRKPH** 

VA Overall AU Category:

Use

Impairment 0.56 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved

Life

2006 2010 VAT-F26E-08 01779

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

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L	vin	11 L V C	עו:	usiii

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_SRH02A00 Sarah Creek - Lower **GLOUCESTER CO** North shore York River near Gloucester Point. Segment extends from

mouth (juncture with York River) upstream to narrows at Gloucester Banks.

DSS seasonal condemnation # 046-052 M1. 10/2/2004.

**YRKPH** 

VA Overall AU Category:

Impairment 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved

Life

2006 2010 VAT-F26E-08 01779

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Polyhaline Embayments TMDL Watershed Name: TMDL Group ID: 01779 VAT-F27E\_TMB01A00 **Timberneck Creek GLOUCESTER CO** North shore York River, northeast of Catlett Islands. DSS condemnation 047-003, 11/4/2003. Area reduced and size adjusted in 2006 cycle **YRKPH** VA Overall AU Category: **Impairment** Use 0.24 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category 01779 Aquatic Life Oxygen, Dissolved 2006 2010 VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08 Life During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge

Municipal Point Source Discharges

Internal Nutrient Recycling Loss of Riparian Habitat

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

01779

TMDL Group ID:

VAT-F27E\_WOR01A00 Wormley Creek (Upper) YORK CO South shore York River near Amoco facility southeast of Gloucester Point.

Upstream portion of DSS (ADMINISTRATIVE) condemnation #052-006A.

YRKPH

VA Overall AU Category: 5A

Use Impairment 0.17 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01779 **2006 2010** VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

T7 1	<b>D</b> •	<b>D</b> •
Vork	River	Kasin

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_WOR02A02 **Wormley Creek (Lower)** YORK CO South shore York River near Amoco facility southeast of Gloucester Point.

One half mile around CORE fish tissue station @ 8-WOR000.35. Downstream portion of DSS condemnation no. 052-006A, 3/7/2002

**YRKPH** 

VA Overall AU Category:

Use

Impairment

0.16 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

> During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2006 2010 Open-Water Aquatic Oxygen, Dissolved

Life

01779

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were

adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin TMDL Watershed Name: York River Polyhaline Embayments TMDL Group ID: 01779 VAT-F27E\_YRK01A00 York River (Lower Middle) **GLOUCESTER CO** The polyhaline boundary downstream to line from Roosevelt Pond N to YORK CO Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas. **YRKPH** 

VA Overall AU Category: 54

**Assessment** 

Use Impairment 8.30 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

3..., ...

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

Sources: Agriculture

Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge

Internal Nutrient Recycling
Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

criteria.

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_YRK01B00 York R (DSS Condemnation - Cheatham Annex) YORK CO Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-

035B, 10/7/2004 - administratively condemned due to National Security.

Size adjusted in 2006.

YRKPH

VA Overall AU Category: **5A** 

Use Impairment 0.26 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life **Oxygen, Dissolved** 01779 **2006 2010** VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen

criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

2010

Open-Water Aquatic Life Oxygen, Dissolved

01779

2006

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen

criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin York River Polyhaline Embayments TMDL Watershed Name: TMDL Group ID: 01779 VAT-F27E\_YRK01C00 York R (DSS Condemnation - Naval Weapons YORK CO Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS Sta.) condemnation 051-040, 9/18/2001 - administratively closed due to National Security. Size adjusted in 2006 cycle YRKPH VA Overall AU Category: **Impairment** 0.23 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08 Life The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria. Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders

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Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

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VAVIZ	RINDE	Basin
<i></i>	Nivei	DUNLIL

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID: 01779

VAT-F27E\_YRK01D06 York River **GLOUCESTER CO** Yorktown Beach YORK CO

**YRKPH** 

VA Overall AU Category:

**Impairment** 0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2004 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2004 2010 VAT-F26E-08

Life The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID: 01779

VAT-F27E\_YRK01E06 York River **GLOUCESTER CO** Gloucester Point Beach YORK CO

**YRKPH** 

VA Overall AU Category:

**Impairment** 0.02 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule Use Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2004 2010 VAT-F26E-08

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2004 2010 VAT-F26E-08

Life

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_YRK02A00 York River - Lower

**GLOUCESTER CO** YORK CO

Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.

**YRKPH** 

VA Overall AU Category:

Use

**Impairment** 11.56 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2004 2010 VAT-F26E-08 (and 2004 fact sheet VAT-F27E-03 also)

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. In addition, there were sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation was attributed to naturally occurring conditions in bottom waters of deep estuarine trenches. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements. There was insufficient data to assess the Deep Water Use.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic

Life

Oxygen, Dissolved

01779

2004

2010

VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment
Unit ID Waterbody Name City / County Assessment Unit Description

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_YRK02B00 York R (Lower - administrative closures DSS

6B&C)

YORK CO

Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and

refinery.

YRKPH

VA Overall AU Category:

Use Impairme

Impairment 0.51 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08 (and 2004 fact sheet VAT-F27E-03 also)

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. In addition, there were sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation was attributed to naturally occurring conditions in bottom waters of deep estuarine trenches. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements. There was insufficient data to assess the Deep Water Use.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen

criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** 

York River Basin

TMDL Watershed Name: York River Polyhaline Embayments

TMDL Group ID:

01779

VAT-F27E\_YRK02C00 York River - AMOCO

YORK CO

Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley

Cr. & AMOCO.

**YRKPH** 

VA Overall AU Category:

Use

**Impairment** 

2.75 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Aquatic Life Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08 (and 2004 fact sheet VAT-F27E-03 also)

> The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. In addition, there were sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation was attributed to naturally occurring conditions in bottom waters of deep estuarine trenches. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements. There was insufficient data to assess the Deep Water Use.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Oxygen, Dissolved 01779 2006 2010 VAT-F26E-08

Life

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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**Assessment Assessment Unit Description Waterbody Name** City / County **Unit ID** York River Basin

York River Polyhaline Embayments TMDL Watershed Name:

TMDL Group ID:

01779

VAT-F27E\_ZZZ01A00 **Unsegmented estuaries in F27E**  **GLOUCESTER CO** YORK CO

Non segmented estuarine areas of F27E - Lower York River. No DSS

condemnations.

YRKPH

VAT-F26E-08

VA Overall AU Category: 5A

Use

**Impairment** 

0.46 SQUARE MILES TMDL Group ID First Listed on 303(d) TMDL Schedule

Impairment Specific Comments and/or Impairment Specific VA Category

Oxygen, Dissolved 01779 Aquatic Life

2006

2010

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic

Life

Oxygen, Dissolved

01779

2006

2010

VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer

dissolved oxygen criteria.

Sources: Agriculture

Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat

Municipal Point Source Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Note: \* Includes Category 4A and 4C Impairments within each Assessment Unit. Assessment Units may extend across jurisdictional boundaries.

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